

Oracle® Universal Records Management

Oracle Universal Records Manager Adapter for FileSystem Administration Guide

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ORACLE

Universal Records Manager Adapter for FileSystem Administration Guide,
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1 Administration Overview

1.1 Overview

This section contains the following topics:

- About This Guide

1.2 About the guide

This guide provides instructions on how to use the FileSystem Adapter on a computer running either on Microsoft Windows or Linux.

Note: The information contained in this document is subject to change as the product technology evolves and as hardware, operating systems, and third-party software are created and modified.

1.2.1 Audience

This guide is intended for those users who will be running the adapter to crawl documents and apply dispositions to them. This gives a step by step procedure on how to run the adapter.

1.2.2 Conventions

The following conventions are used throughout this guide:

- Forward slashes (/) are used to separate parts of an Internet address. For example, <http://www.oracle.com/en/index.htm>. A forward slash might or might not appear at the end of an Internet address.
- Backward slashes (\) are used to separate the levels in a path to a Windows server, directory, or file. For example, C:\stellent\idcm1\. A backward slash will always appear after the end of a Windows server, directory, or file path.
- Forward slashes (/) are also used to separate the levels in a path to a UNIX server, directory, or file. For example, /usr/stellent/idcm1.
- File names and file paths within text are indicated by the following convention: *<filename>* file in the *<path_to_directory>* directory.
- Notes, technical tips, important notices, and cautions use these conventions:

2 Functional Overview

The whole functionality of the Adapter is segregated into the following modules:

- Adapter Initiation and Configuration
- Adapter Behavior

2.1 Adapter Initiation and Configuration

The Adapter provides a class which will act as the entry point to start its execution. In the Adapter initiation, Adapter and Adapter Engine are instantiated and a listener is added to the Adapter Engine for listening to the Events. Finally, the Adapter is activated to allow the communication between URM and FileSystem repository. The adapter configuration involves details about adapter implementations which enable it to customize its internal behavior to appropriately host the adapter. It describes the capabilities of the adapter as well as how each capability setting alters the framework's internal behavior.

2.2 Adapter Behavior

The FSAdapter.jar file contains the FileSystem adapter functionality. It provides various classes (which extend from the generic adapter implementations) that will implement the various tasks like Document declaration, retention and record management. These tasks are carried out at the URM end and this FileSystem adapter serves as the bridge between the URM and the FileSystem conveying to FileSystem the actions performed on the documents at the URM end.

The FileSystem Adapter will be able to perform the following functions:

2.2.1 Self description: The adapter supplies several classes to be used by Administration Utility. These classes define what metadata (names, data types, etc.) the adapter can supply to the Oracle Universal Records Management application, define windows controls for use in search creation, and define fields that can be searched.

2.2.2 Document declaration: The Adapter supplies functionality to evaluate searching expressions, and use the results to get a list of documents and their metadata for submittal to the Oracle Universal Records Management application.

2.2.3 Retention management on selected files: Retention management is performed by collecting metadata belonging to the selected file and sending it to the Oracle Universal Records Management application. When the retention period has expired, the adapter will perform the appropriate disposition action (archive or delete) against the file.

2.2.4 Record management on selected files: Record management ensures that a file cannot be modified or deleted from the FileSystem repository if it is checked into the URM as a record. All such records then become uneditable from the FileSystem end.

2.2.5 Document freezing: A litigation freeze issued from the Oracle Universal Records Management application causes the adapter to freeze the document. This document is then uneditable.

2.2.6 Document Archive: Following an archive disposition issued by the Oracle Universal Records Management application, the adapter creates a copy of the original content, and tells the adapter framework the location of the copy. When the framework is finished processing the archiving, it will inform the adapter, and the adapter will delete the copy.

2.2.7 Document Deletion: Following a delete disposition issued by the Oracle Universal Records Management application, the adapter deletes the original content.

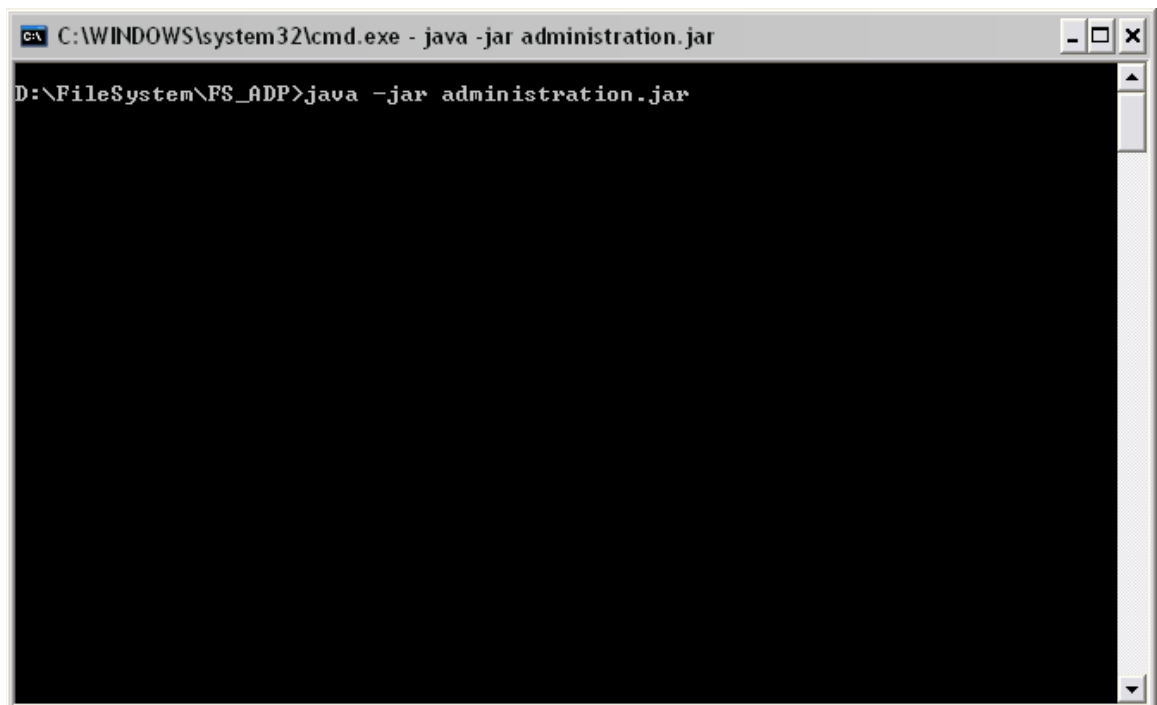
3 Detailed Description

This section describes the procedure for configuring the administration.jar and running the FSAdapter.jar file.

3.1 Configuring the Adapter through Administration screens

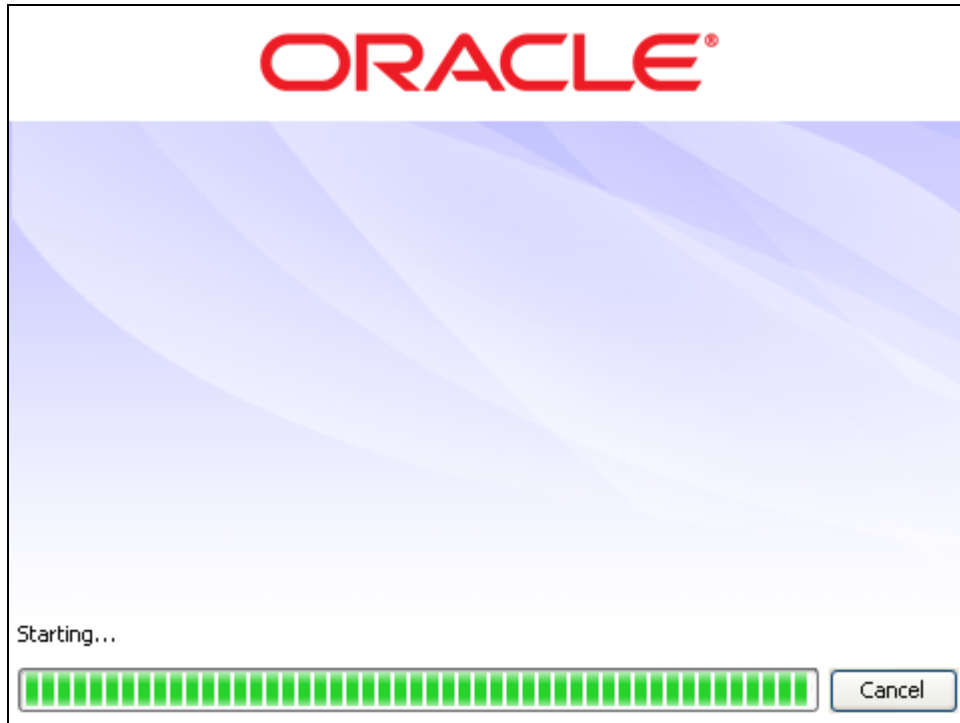
Before starting the FileSystem Adapter, it needs to be configured through the administration screens. The steps to execute administration.jar file are as follows:

1. Open the command prompt either by
[Start →run→ type "cmd" in run window.](#)
Or by
[Start→programs→accessories→command prompt.](#)
2. Change the path in command prompt to the directory where administration.jar file is located. (e.g. the path of administration.jar file is D:\FileSystem Adapter) Execute the command [java -jar administration.jar](#) on command prompt to run the jar file.



```
C:\WINDOWS\system32\cmd.exe - java -jar administration.jar
D:\FileSystem\FS_ADP>java -jar administration.jar
```

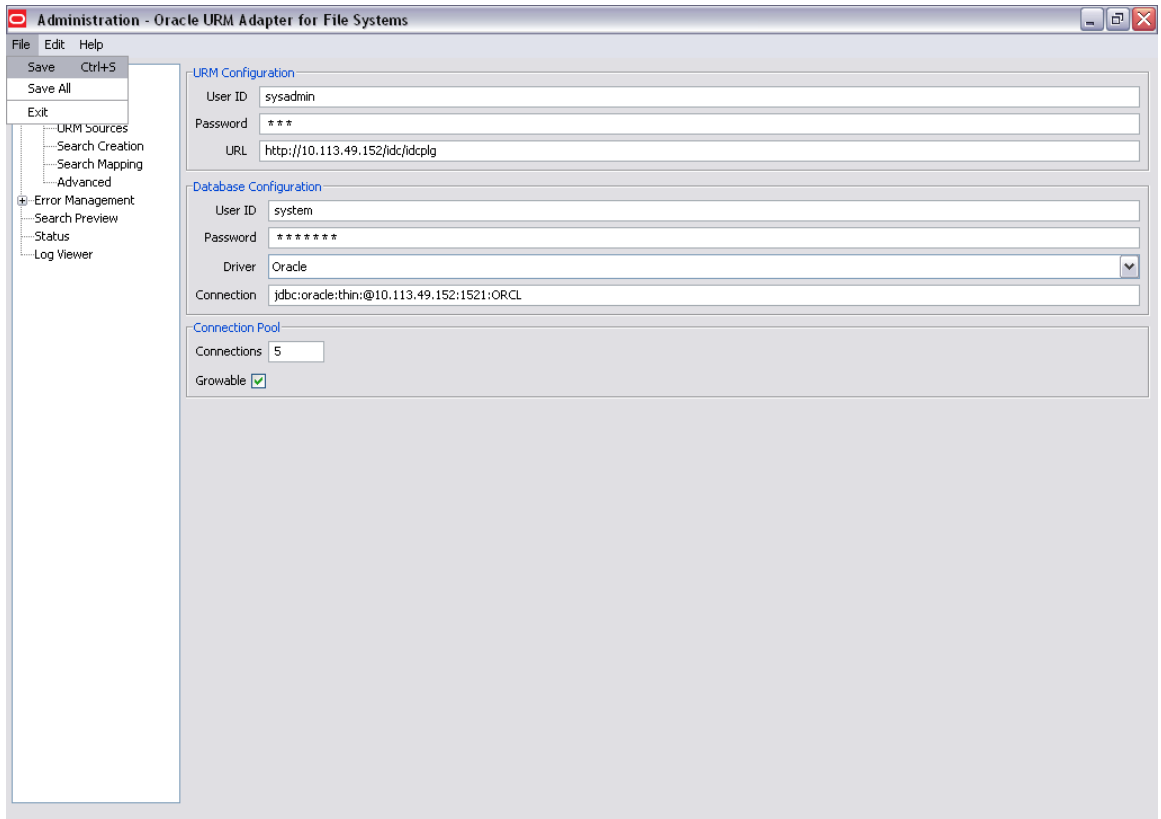
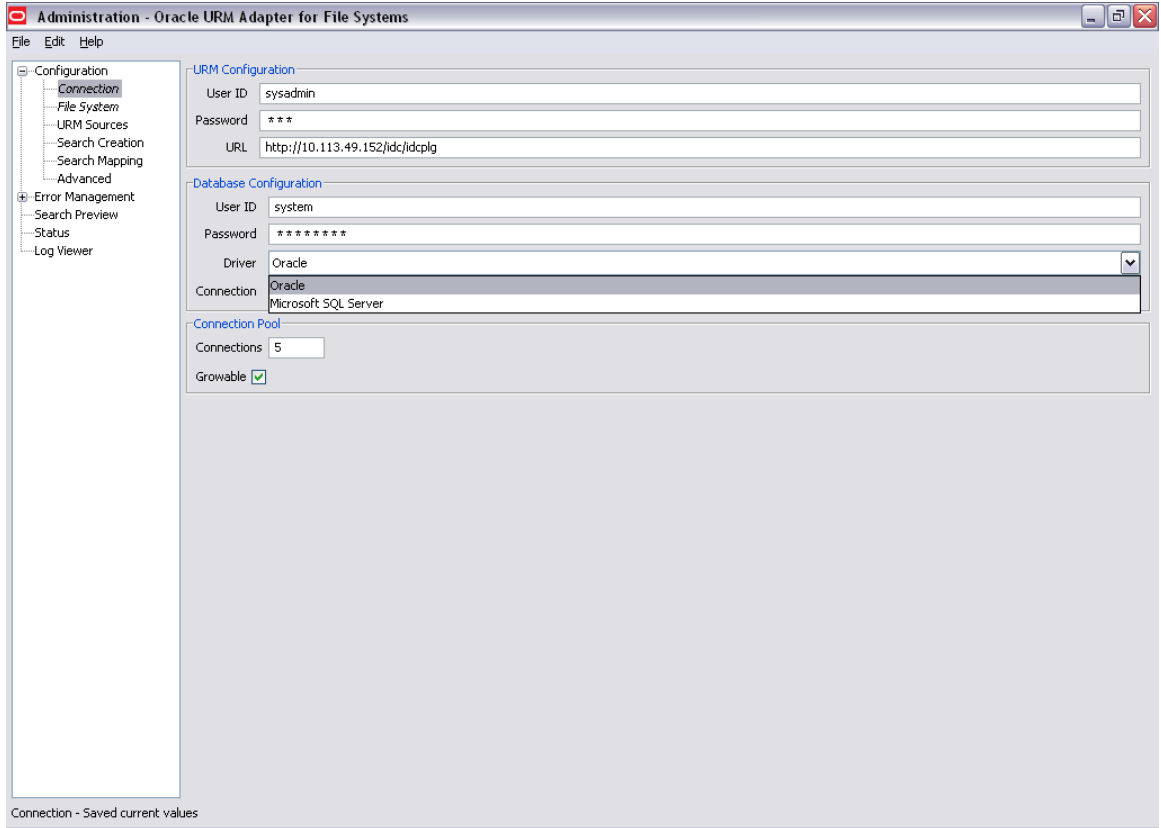
3. Then the executable administration.jar file is started as shown below.



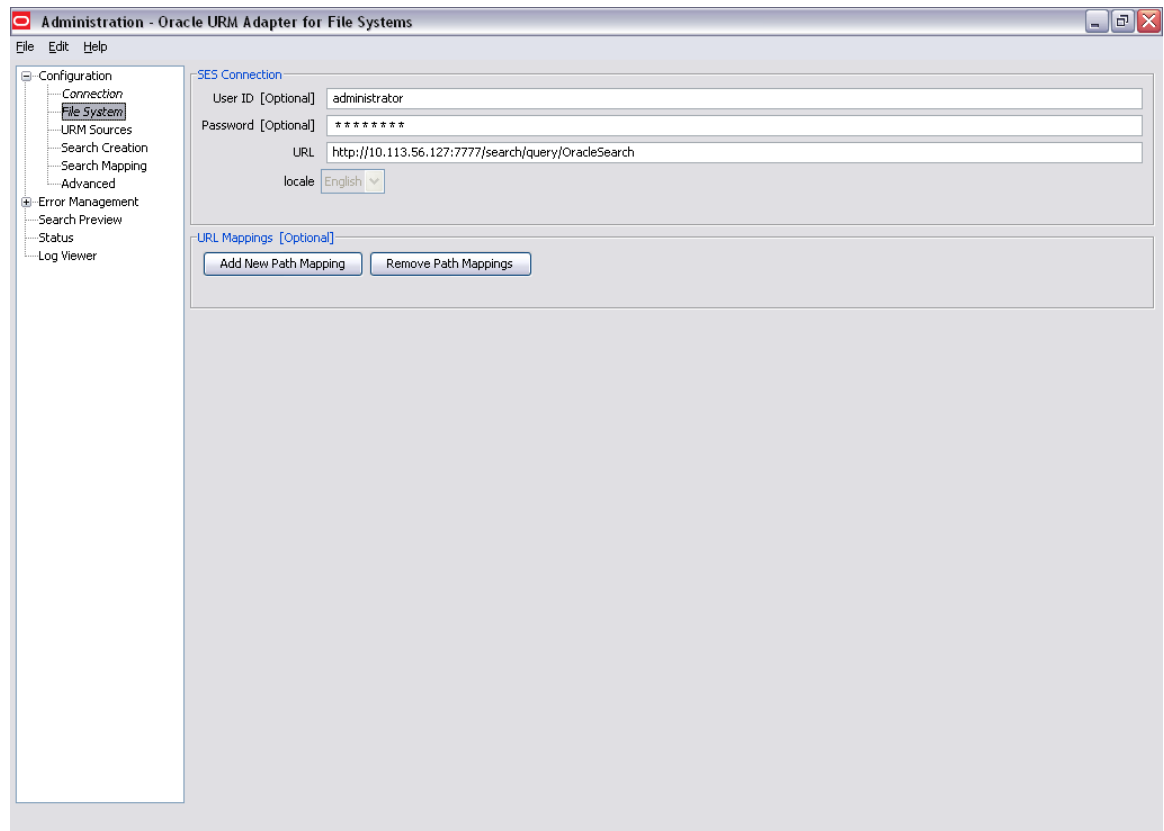
4. A new window Administration-Oracle URM Adapter for FileSystem will open. Here the URM and its database configuration details need to be provided. Once provided these details are saved by the Adapter for further reference.

The screenshot shows the 'Administration - Oracle URM Adapter for File Systems' window. The left sidebar contains a tree view with the following items: Configuration (expanded), Connection (selected), File System, URM Sources, Search Creation, Search Mapping, Advanced, Error Management, Search Preview, Status, and Log Viewer. The main content area is divided into three sections: 'URM Configuration' with input fields for 'User ID', 'Password', and 'URL'; 'Database Configuration' with input fields for 'User ID', 'Password', a 'Driver' dropdown menu, and 'Connection'; and 'Connection Pool' with a 'Connections' input field set to '5' and a 'Growable' checkbox.

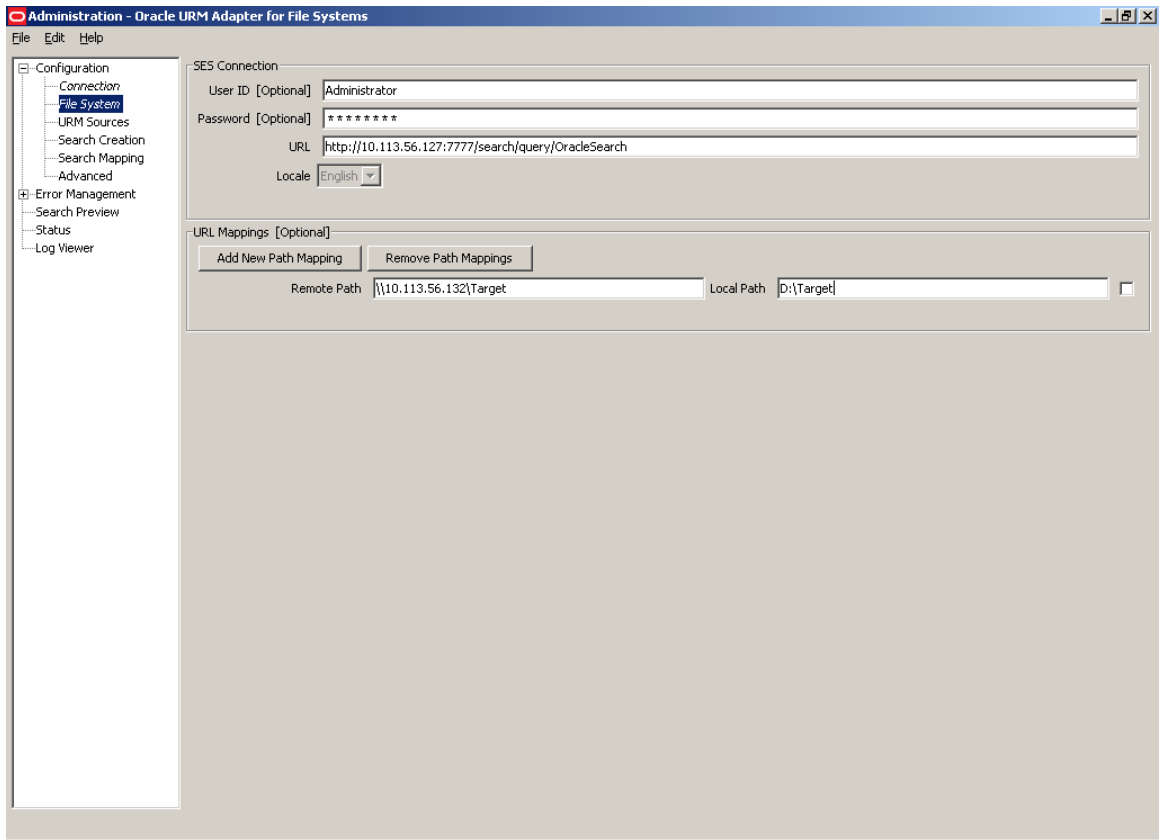
5. Fill the following details in Connection screen and click “save” option of file menu.
- URM Configuration
 - a) Userid
 - b) Password
 - c) URL (e.g.: http:// <hostname>/idc/idcplg)
 - Database Configuration
 - a) Userid
 - b) Password
 - c) Driver
 - d) Connection
 - Connection Pool
 - a) Connection
 - Growable – This needs to be checked.



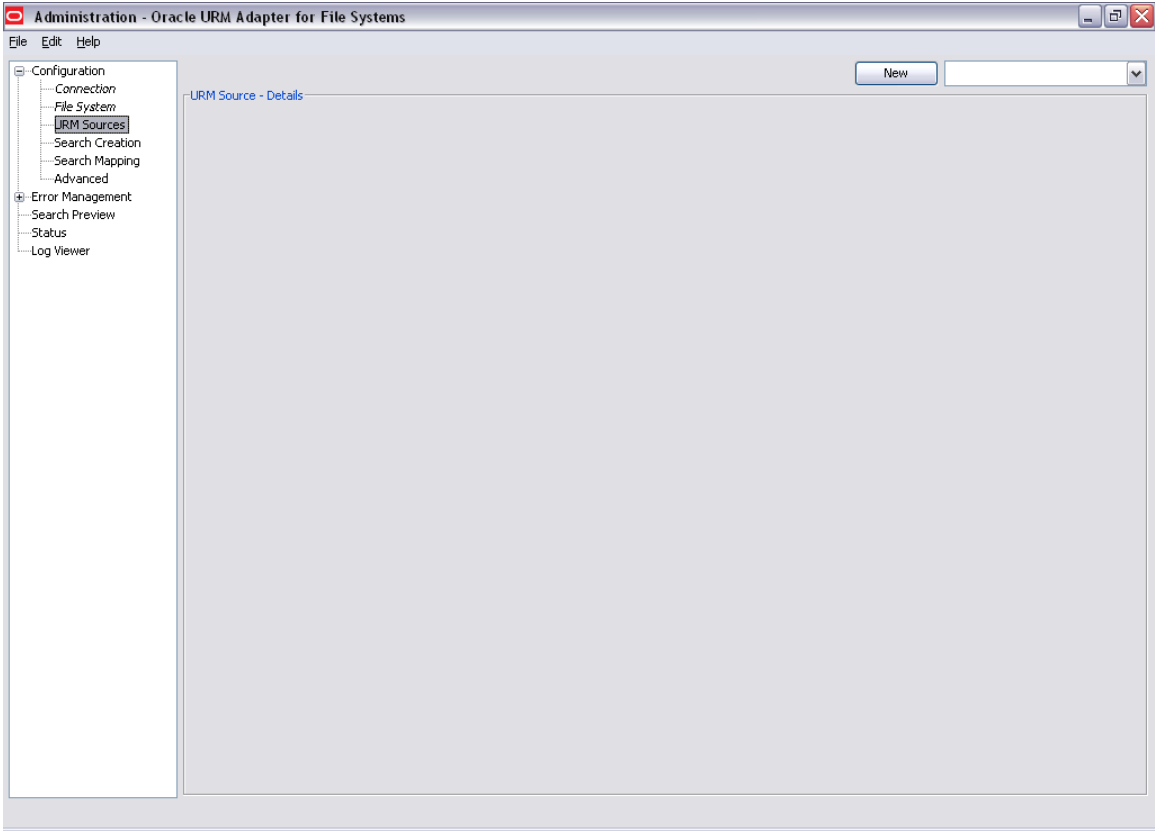
6. The next screen shows the FileSystem Database connection details. Fill the following details and click “save” option of file menu.
- FileSystem UserID
 - FileSystem Password
 - URL



✚ URL Mappings allows the user to map a remote network path to a local path:



7. Create new Source by Clicking on the URM Sources.



- Clicking on the <new> button a new window “Create new URM Source” will open. Users have to enter valid Name, Caption, and Table name and select the FileSystem repository for which datasource is to be created. Then click <next> button.

Create new URM Source - Step 1 of 3: Source Information

General

Name Caption

Table

Repository Add Defaults

Repository Fields

Type	Name	Size
Abc	Author	Unknown
Abc	Description	Unknown
Abc	Language	Unknown
	Last Modified	
Abc	Mime Type	Unknown
Abc	Title	Unknown
Abc	URL	Unknown

< Back Next > Finish Cancel

Create new URM Source - Step 1 of 3: Source Information


General

Name: TEST Caption: TEST

Table: TESTT

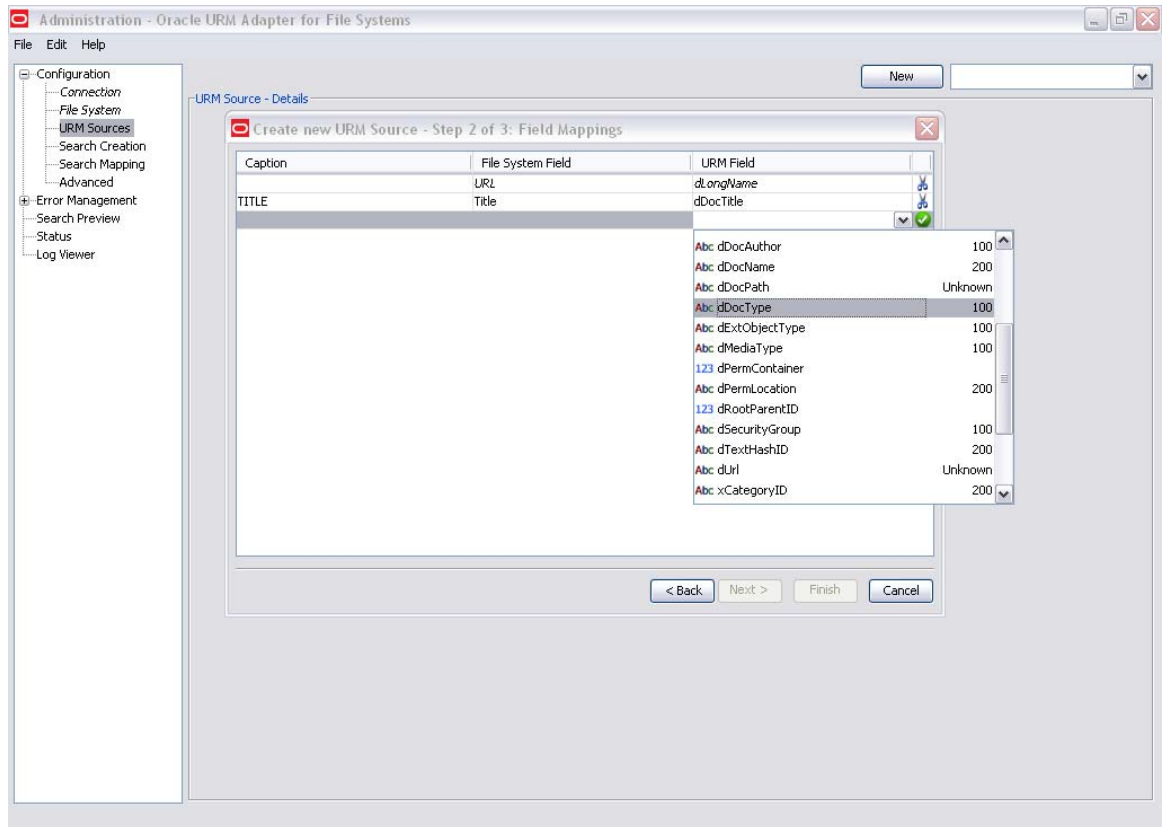
Repository: File System Add Defaults:

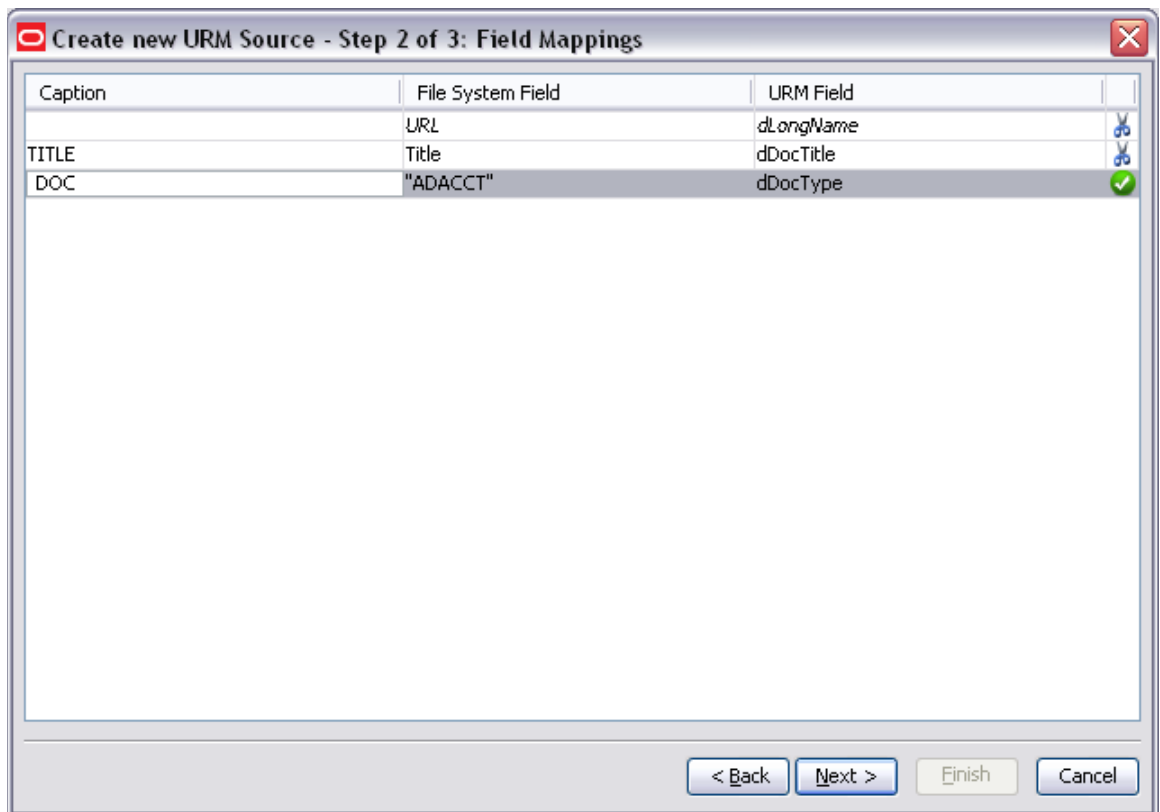
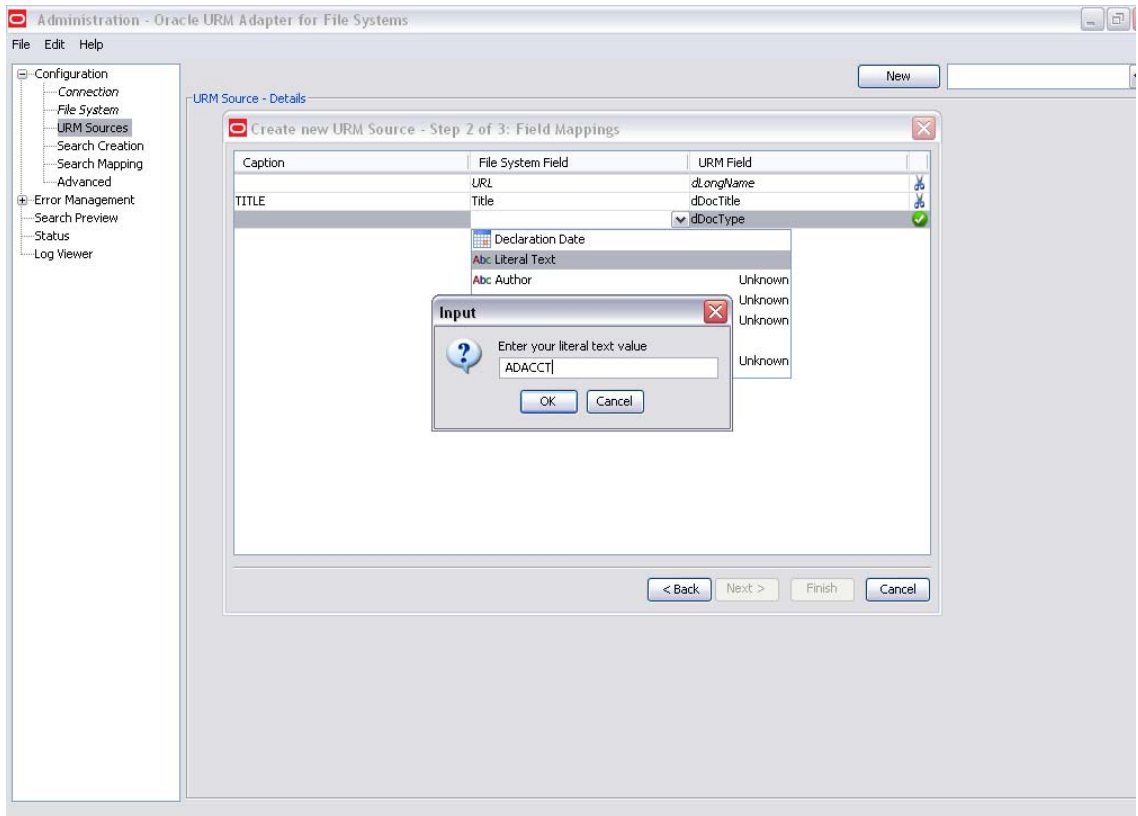
Repository Fields

Type	Name	Size
Abc	Author	Unknown
Abc	Description	Unknown
Abc	Language	Unknown
	Last Modified	
Abc	Mime Type	Unknown
Abc	Title	Unknown
Abc	URL	Unknown

< Back **Next >** Finish Cancel

- ✚ Enter Caption and map FileSystem Repository fields and URM fields. Right click on field Mapping window and select <add> button. Select any additional fields from the URM and map them to the FileSystem fields. E.g.: Select URM field as dDocType and map it to the corresponding FileSystem Repository field. Click <next>.





- In the next screen make the last modified date as searchable by checking the Searchable checkbox. Click <finish>. Data source thus created will be visible in External Content of Oracle Content server.

Name	Caption	Default Value	Type	Enabled	Required	Searchable	
Author			Memo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	✓
Description			Memo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	✓
Language			Memo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	✓
Last Modified			Date	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	✓
Mime Type			Memo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	✓

After clicking on finish:

The screenshot shows the 'Administration - Oracle URM Adapter for File Systems' window. The left sidebar contains a tree view with the following items: Configuration, Connection, File System, URM Sources, Search Creation, Search Mapping, Advanced, Error Management, Search Preview, Status, and Log Viewer. The main area is titled 'URM Source - Details' and shows a 'Caption: TEST', 'Table: TESTT', and 'Repository: File System'. Below this is a 'Field Mappings' table:

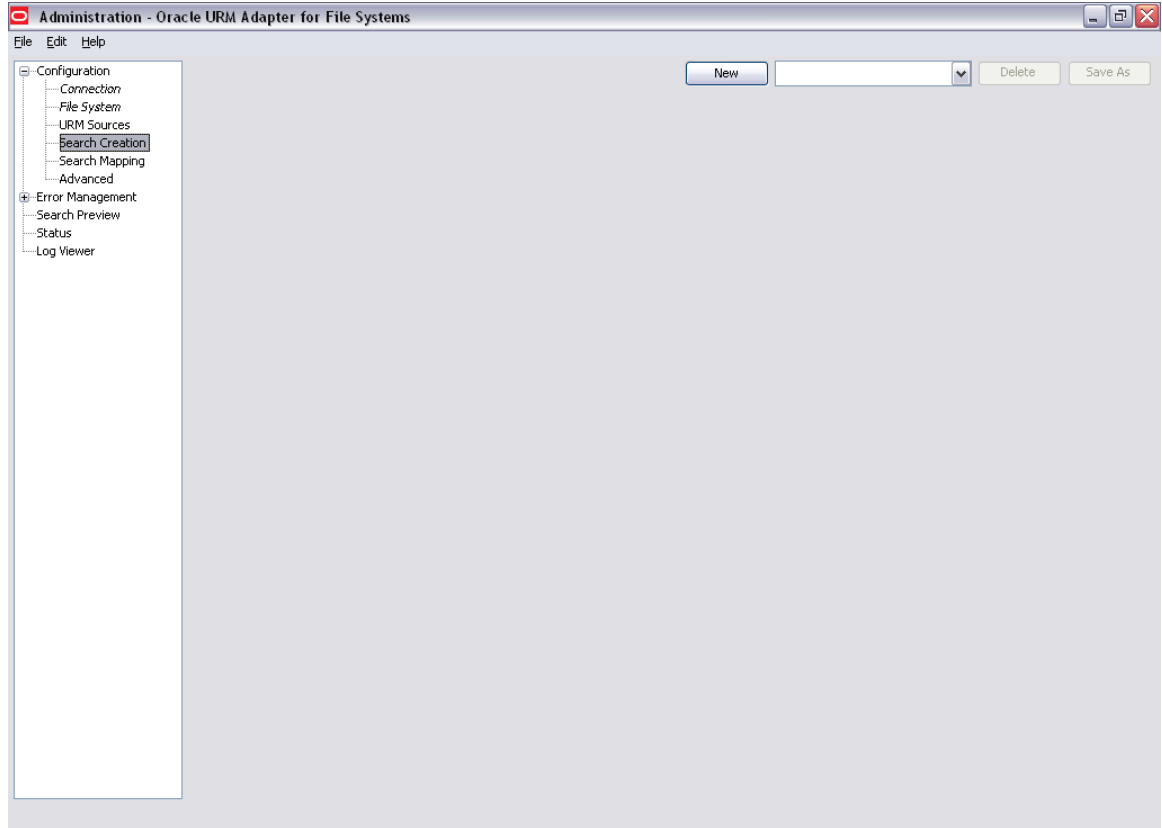
Caption	Repository Field	URM Field	
	"ADACCT"	dDocType	✓
TITLE	Title	dDocTitle	↕
	URL	dLongName	↕

Below the field mappings is a 'Custom Fields' table:

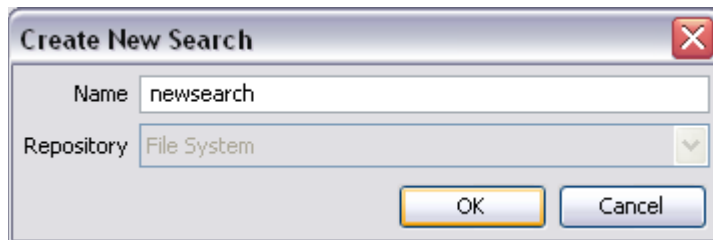
Name	Caption	Default Value	Type	Enabled	Required	Searchable	
Author			Memo	✓	<input type="checkbox"/>	✓	✓
Description			Memo	✓	<input type="checkbox"/>	✓	✓
Language			Memo	✓	<input type="checkbox"/>	✓	✓
Last Modified			Date	✓	<input type="checkbox"/>	✓	✓
Mime Type			Memo	✓	<input type="checkbox"/>	✓	✓

- Click on the Search creation in Configuration tray. Clicking on <new> button, a new window "Create New Search" will open. The new search name should be entered in Name Text field and the repository type chosen from the drop down before clicking Ok.

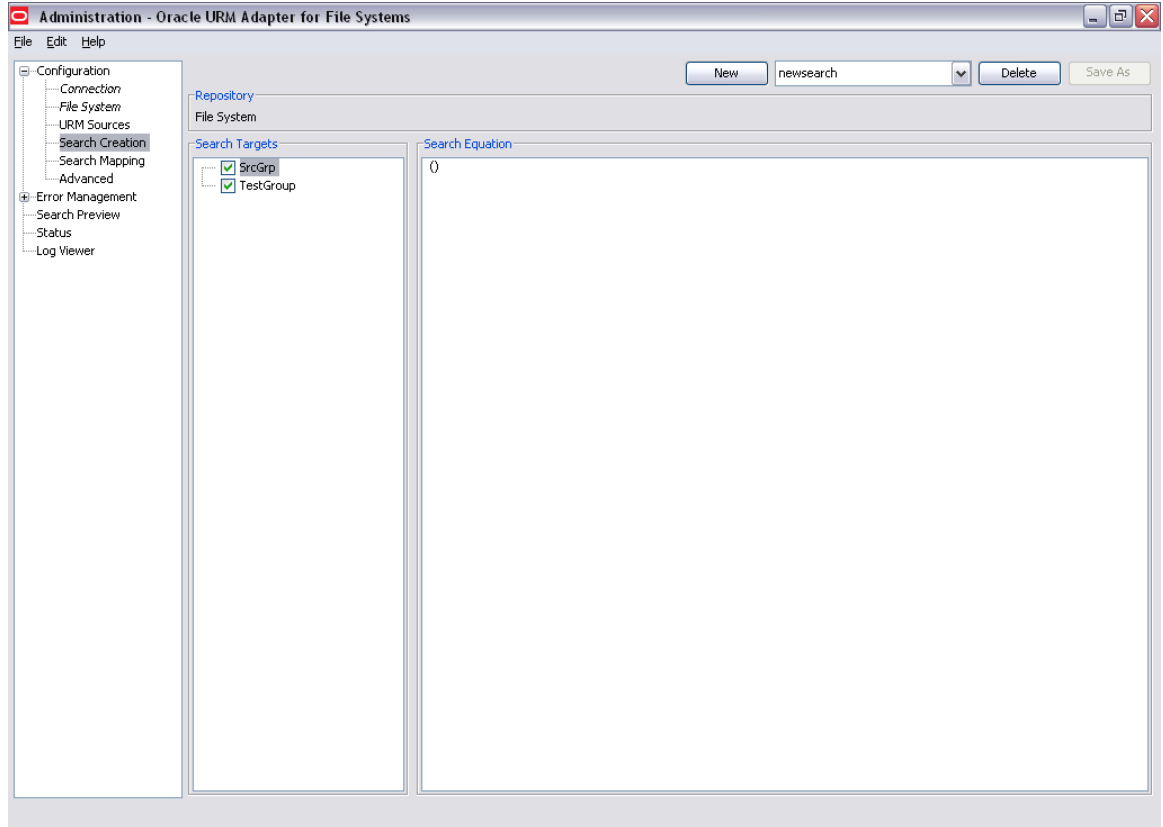
Note: It is assumed that all the steps mentioned below in the [point 5](#) have been followed.



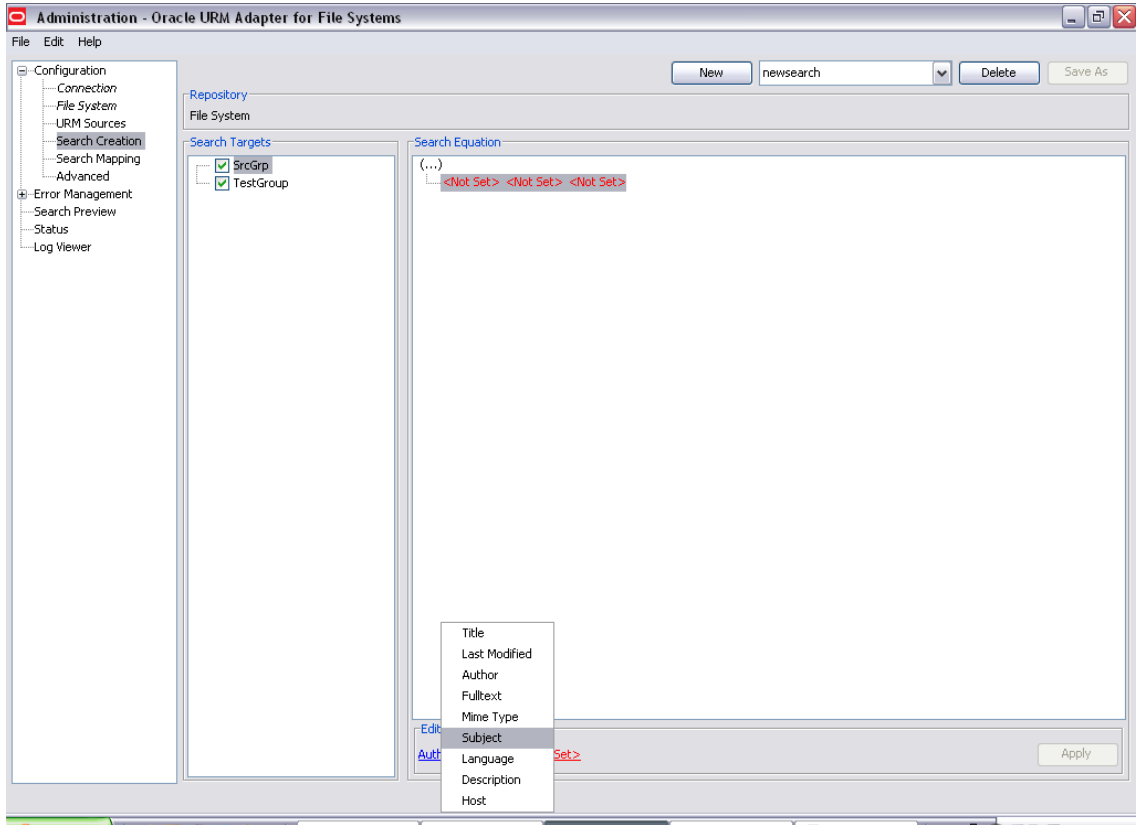
- After clicking on new:



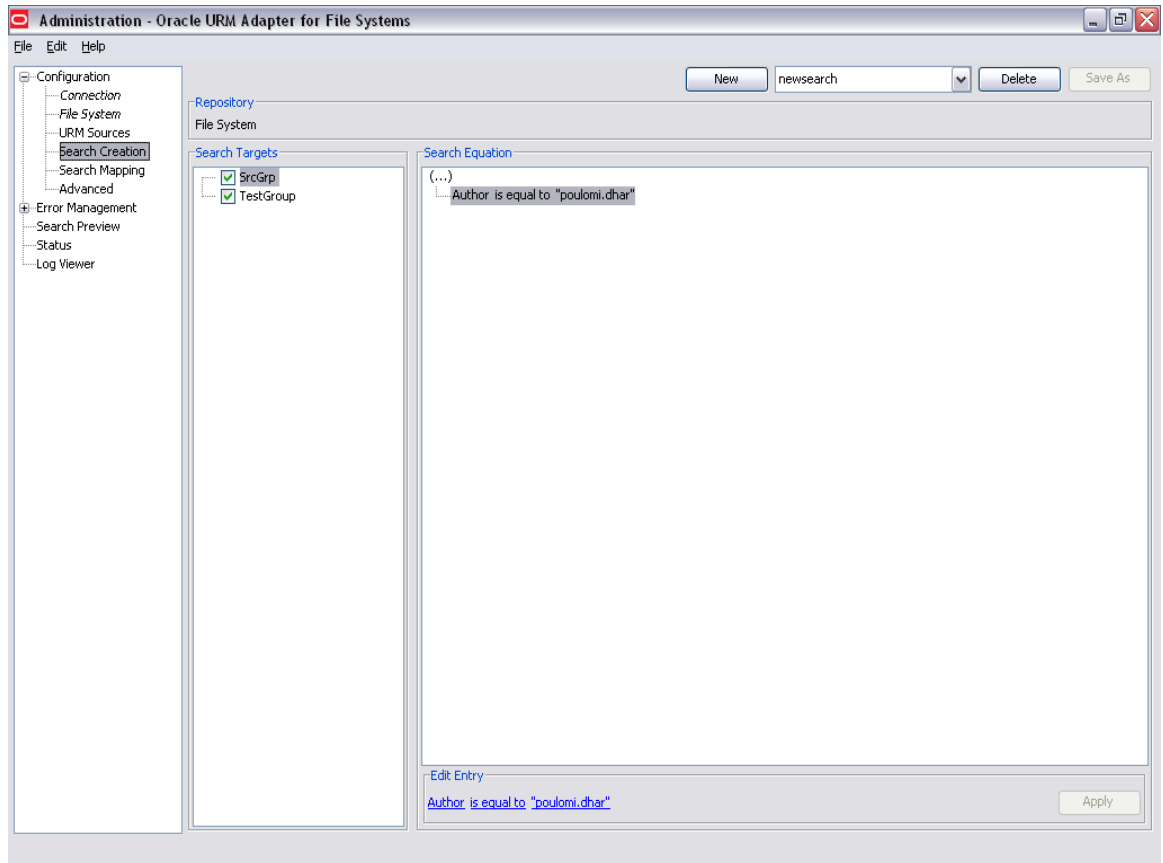
10. Select the search targets from FileSystem Repository Cabinets/Folders. Right Click in the search equation screen and select “Add Terms” to enable the “Search Equation Fields”. Define the search equation using the fields provided in the “Edit Entry” box and then click on <Apply> button. After entering all entries save the contents by clicking on “save” option of file menu. New search name will be stored in dropdown list in search creation page.



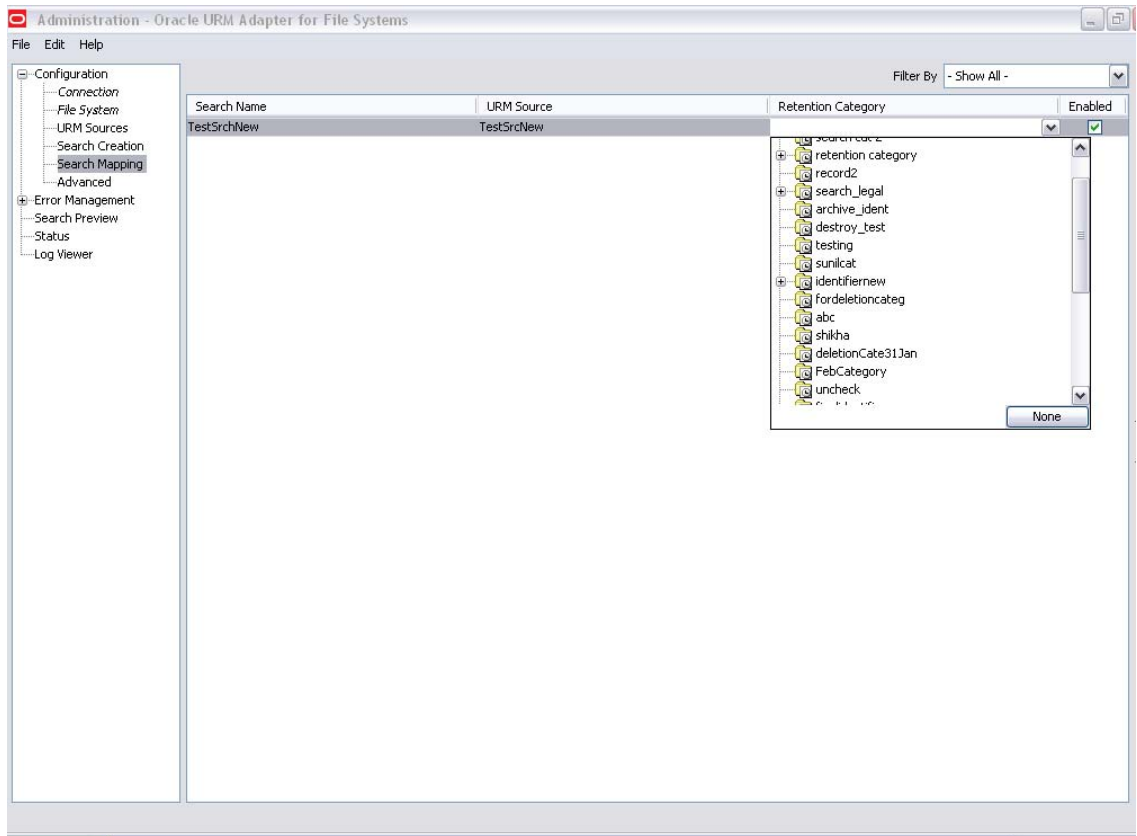
- Right click on the braces and click on either 'add group' or 'add term'. Then in the 'Edit Entry' box (at the bottom) fill in the appropriate values.



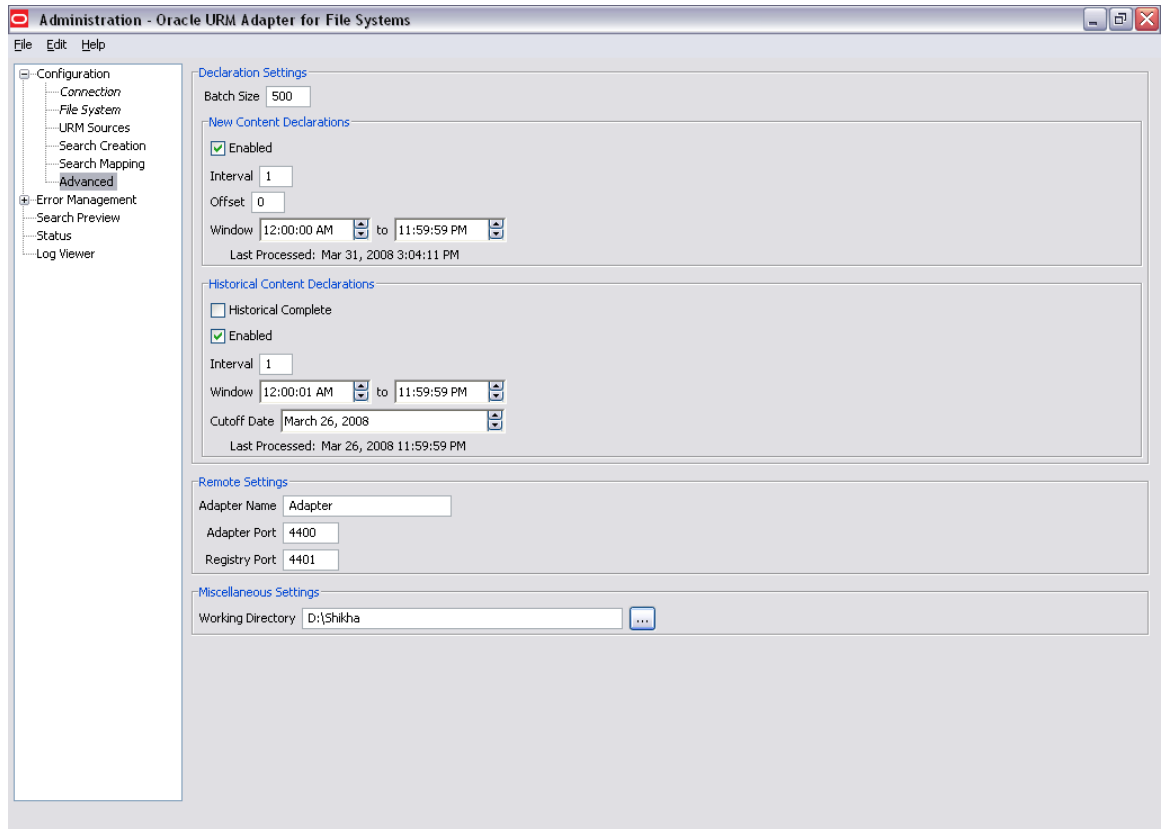
✚ Set the values and click on apply



11. Click on the Search Mapping of Configuration tray. Select the search name from “Filter by” drop down list. Select URM source, Retention Category for a search. Save all the changes by clicking on <save> option of file menu.



12. Enter data in declaration settings of the advanced screen, new content declarations (for forward search) and historical content declarations (for backward search). Also provide name for the adapter along with the ports and working directory information. Please note that the historical search runs backward in time starting from the Last processed date to the Cut off Date (Cut off Date should be any day before the Last Processed Date).



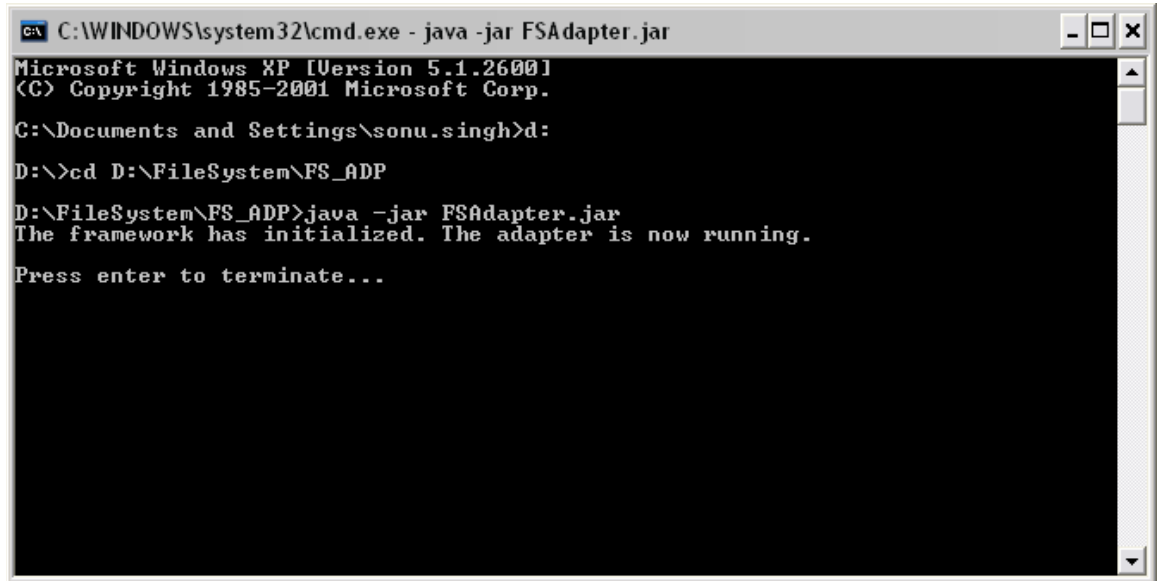
13. Before the search preview can be seen the FSAdapter.jar file needs to be run. Open a second command prompt window by either of the two ways below:

Start →run→ type "cmd" in run window.

Or by

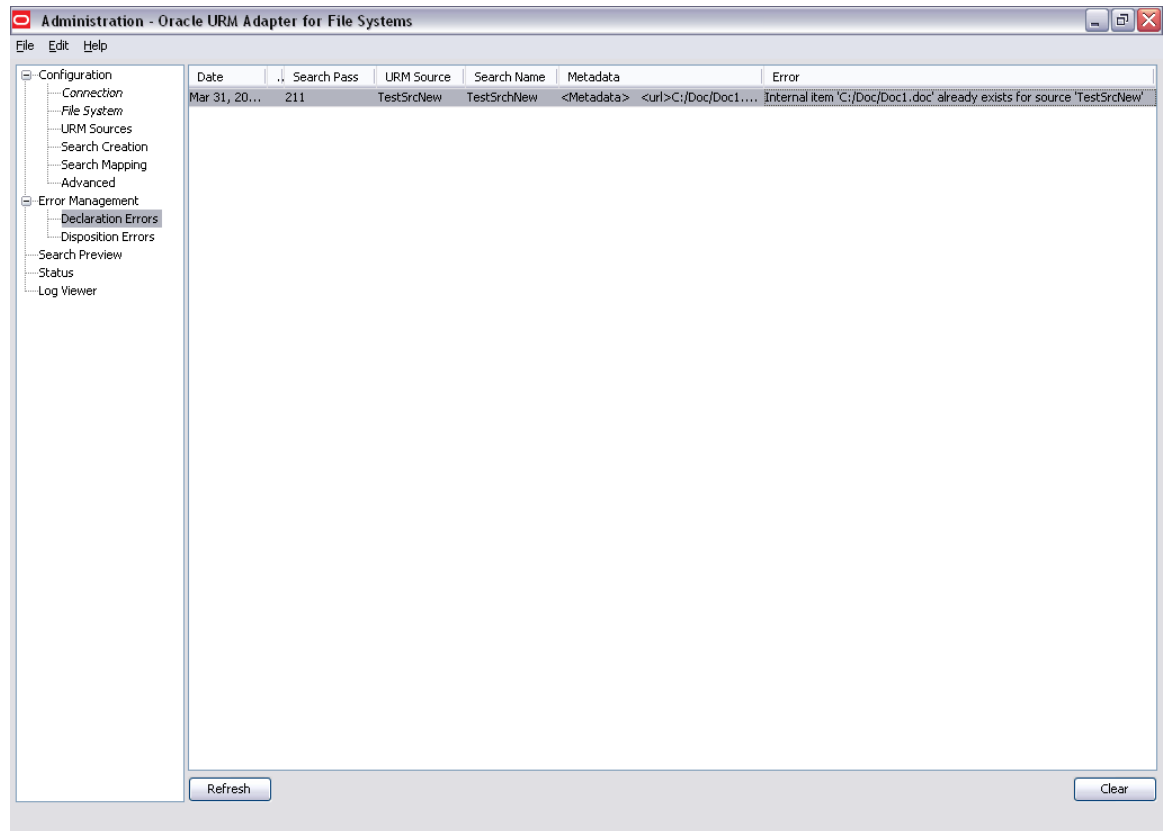
Start→programs→accessories→command prompt.

14. Now navigate to the directory where FSAdapter.jar file is located. (e.g. the path of FSAdapter.jar file is C:\FileSystem Adapter). Then execute the command `java -jar FSAdapter.jar` on command prompt to run the adapter jar file. This will initialize the adapter framework.



```
C:\WINDOWS\system32\cmd.exe - java -jar FSAdapter.jar
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\sonu.singh>d:
D:\>cd D:\FileSystem\FS_ADP
D:\FileSystem\FS_ADP>java -jar FSAdapter.jar
The framework has initialized. The adapter is now running.
Press enter to terminate...
```

15. After clicking on Error Management, we get both Declaration errors and Disposition errors:



Administration - Oracle URM Adapter for File Systems

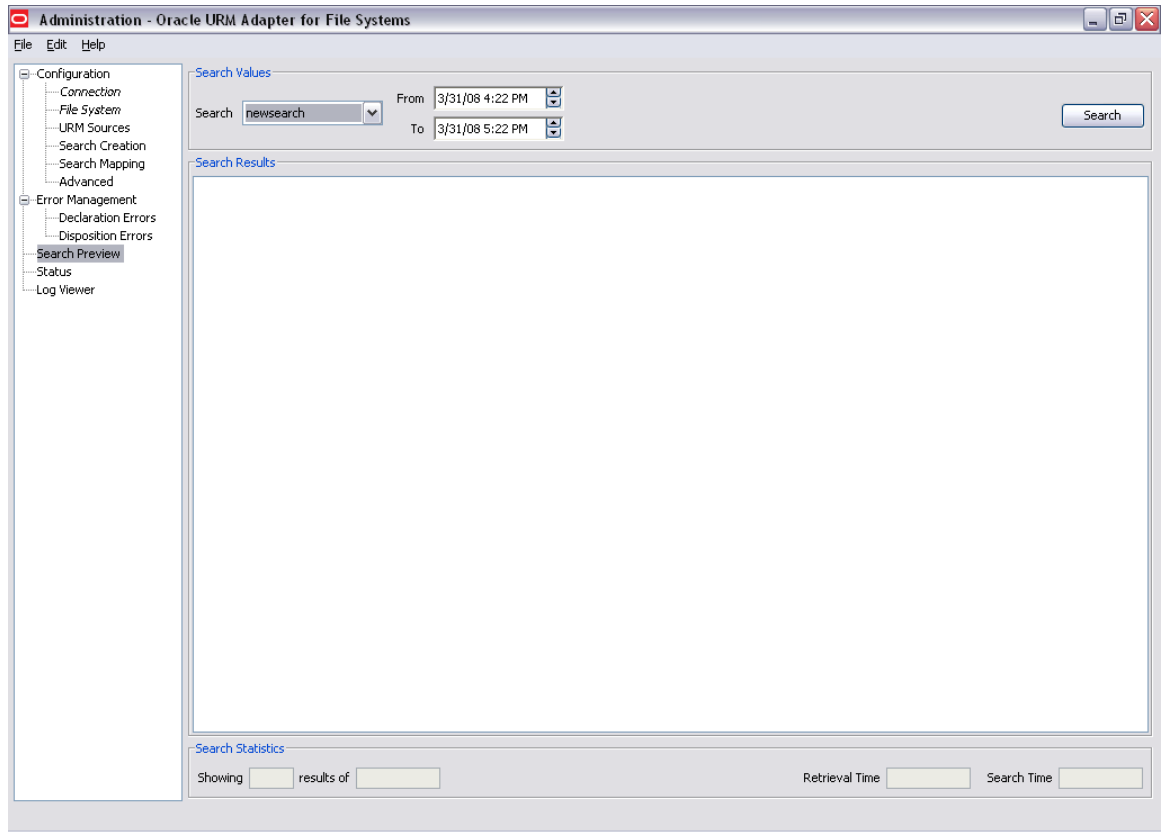
File Edit Help

- Configuration
 - Connection
 - File System
 - URM Sources
 - Search Creation
 - Search Mapping
 - Advanced
- Error Management
 - Declaration Errors
 - Disposition Errors
 - Search Preview
 - Status
 - Log Viewer

Date	Unique ID	Disposition Type	Error
Mar 31, 2008 4:35:14 PM 0	//10.113.56.51/Docs/Doc13.doc	Freeze	Source TestSrcNew - Document //10.113.56.51/Docs/Doc13.doc not successfully frozen

Refresh Clear

16. Search results based on new search (created previously) should be visible in search preview screen. In the search preview screen select the appropriate search that needs to be run and set the time window. Now click on search and all the documents satisfying the search criteria get crawled. The details of all these searched documents are shown in the lower right hand side pane.

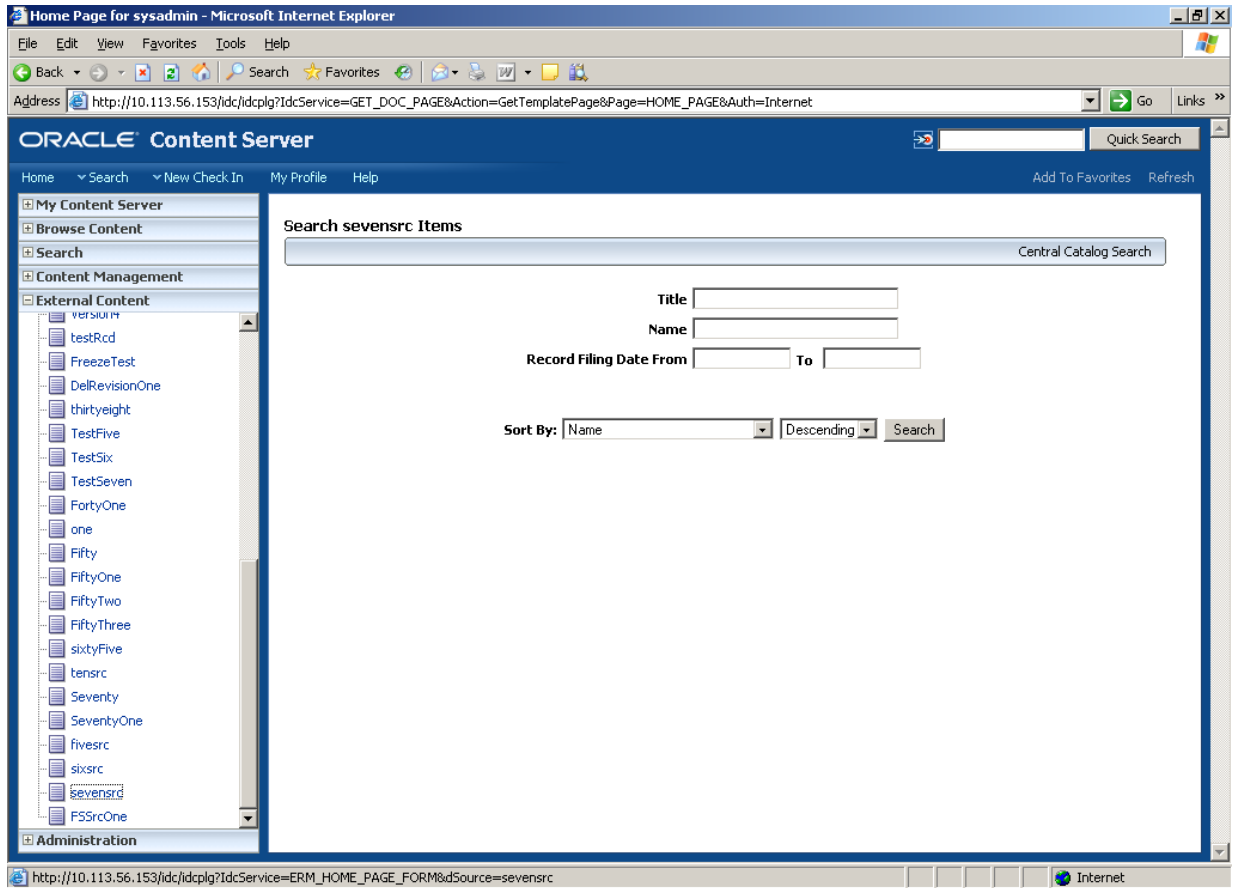


17. The status screen shows the status of Search, Disposition, Freeze and Thaw Statistics. Click refresh button to view latest statistics.

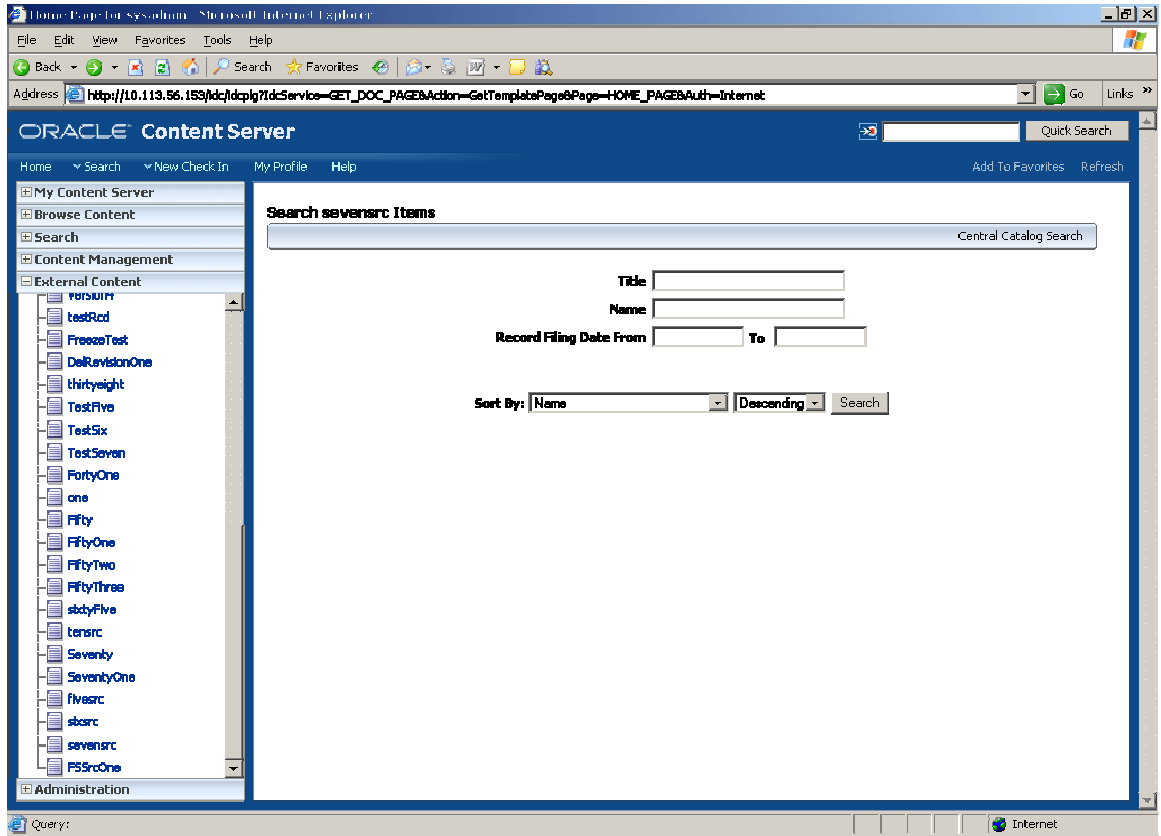
The screenshot shows the 'Administration - Oracle URM Adapter for File Systems' window. The left sidebar contains a tree view with the following items: Configuration (Connection, File System, URM Sources, Search Creation, Search Mapping, Advanced), Error Management (Declaration Errors, Disposition Errors), Search Preview, Status (selected), and Log Viewer. The main content area has two tabs: 'Adapter Status' and 'Process Status'. The 'Process Status' tab is active and displays four statistics sections: Search Statistics, Disposition Statistics, Freeze Statistics, and Thaw Statistics. Each section has three progress bars for 'Attempted', 'Completed', and 'Failed'. To the right of these sections are four data tables. The first table has columns 'Search Name' and 'Count'. The second table has columns 'Disposition Type' and 'Count'. The third table has columns 'URM Source' and 'Count', with a tooltip 'Total Searches by URM Source' over the 'URM Source' header. The fourth table also has columns 'URM Source' and 'Count'. At the bottom right of the window are 'Refresh' and 'GC' buttons.

4 Sources created through administration as viewed from URM

- The sources created above through administration file are seen in the external contents of the URM.



- Next Click on the search button as shown in the screen below to list the documents that have been crawled through the search created in administration.



➤ The documents when listed are as shown below

The screenshot shows the Oracle Content Server interface in Microsoft Internet Explorer. The browser address bar displays the URL: `http://10.113.56.153/ldc/ldcplg?IdcService=GET_DOC_PAGE&Action=GetTemplatePage&Page=HOME_PAGE&Auth=Internet`. The Oracle Content Server header includes navigation links for Home, Search, New Check In, My Profile, and Help. A search bar on the right contains the query 'sevensrc'. Below the search bar, it indicates 'Search Results for 'sevensrc' Potential items 1-20 of 1000' and 'Page 1 of 10'. A table of search results is displayed with the following columns: Select All, Name, Title, Date, Author, and Actions. The table contains 10 rows of results, all with an author of 'sysadmin' and a date of '3/28/08'. The left sidebar shows a tree view of the content server structure, including 'My Content Server', 'Browse Content', 'Search', 'Content Management', 'External Content', and 'Administration'.

<input type="checkbox"/> Select All	Name	Title	Date	Author	Actions
<input type="checkbox"/>	967587257315879039		3/28/08	sysadmin	
<input type="checkbox"/>	957591720836685039		3/28/08	sysadmin	
<input type="checkbox"/>	933157262209406039		3/28/08	sysadmin	
<input type="checkbox"/>	933126125452196039		3/28/08	sysadmin	
<input type="checkbox"/>	9221051621966665039		3/28/08	sysadmin	
<input type="checkbox"/>	9203240230298633039		3/28/08	sysadmin	
<input type="checkbox"/>	918953457390642039		3/28/08	sysadmin	
<input type="checkbox"/>	9174164998798211039		3/28/08	sysadmin	
<input type="checkbox"/>	9170826070459467039		3/28/08	sysadmin	
<input type="checkbox"/>	9167004504501359039		3/28/08	sysadmin	
<input type="checkbox"/>	9163422549419649039		3/28/08	sysadmin	













5 ORACLE Secure Enterprise Search (OSES)

5.1 Settings for remote system crawling:













To enable searching documents from a remote folder through OSES, do the following steps:

1. Folder Properties:

a. If you are going to let SES run under the LOCAL SYSTEM id (example below) then the source folder(s) need to have full (read and write) permission granted to the everyone user.

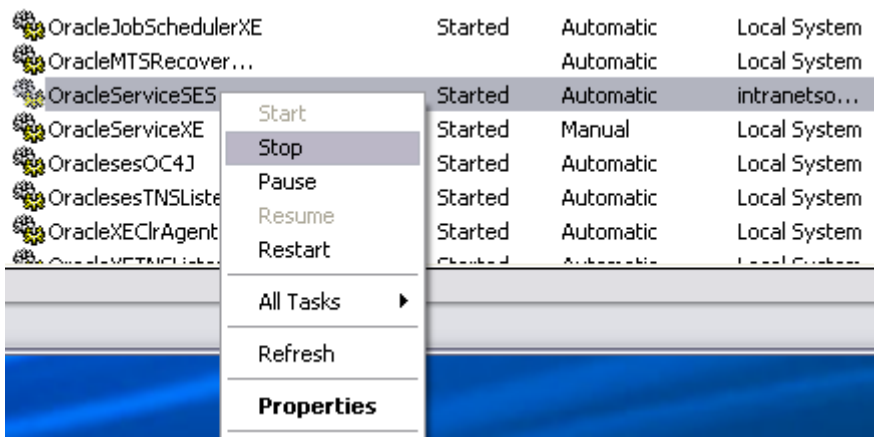
Name ▲	Description	Status	Startup Type	Log On As
 Network Provisionin...	Manages X...		Manual	Local System
 NT LM Security Sup...	Provides s...		Manual	Local System
 Oracle Connector A...	Checks for ...	Started	Automatic	Local System
 OracleJobScheduler...		Started	Automatic	Local System
 OracleJobSchedulerXE		Started	Automatic	Local System
 OracleMTSRecover...			Automatic	Local System
 OracleServiceSES		Started	Automatic	Local System
 OracleServiceXE		Started	Manual	Local System
 OraclesesOC4J		Started	Automatic	Local System
 OraclesesTNSListener		Started	Automatic	Local System
 OracleXEClrAgent		Started	Automatic	Local System
 OracleXETNSListener		Started	Automatic	Local System

b. If you are going to let SES run under a specified user id (example below using id jhovis) then the source folder(s) need to have full (read and write) permission granted to the specific user.

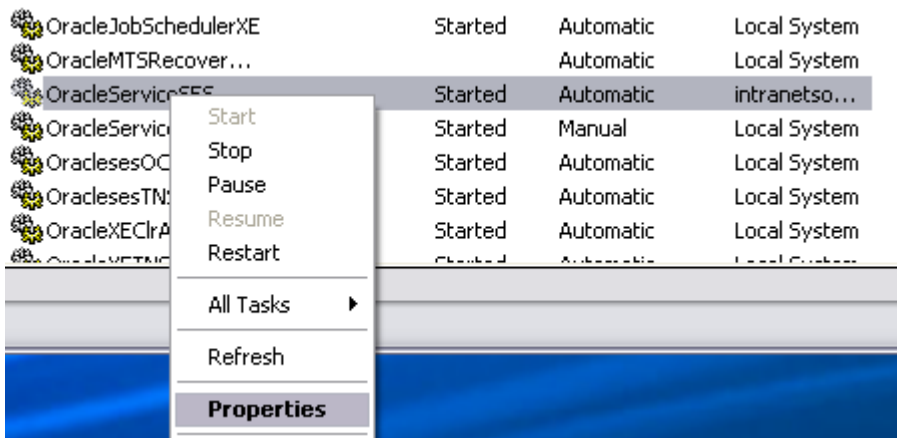
Name ▲	Description	Status	Startup Type	Log On As
 Network Provisionin...	Manages X...		Manual	Local System
 NT LM Security Sup...	Provides s...		Manual	Local System
 Oracle Connector A...	Checks for ...	Started	Automatic	Local System
 OracleJobScheduler...		Started	Automatic	Local System
 OracleJobSchedulerXE		Started	Automatic	Local System
 OracleMTSRecover...			Automatic	Local System
 OracleServiceSES		Started	Automatic	intranetsoll\jhovis
 OracleServiceXE		Started	Manual	Local System
 OraclesesOC4J		Started	Automatic	Local System
 OraclesesTNSListener		Started	Automatic	Local System
 OracleXEClrAgent		Started	Automatic	Local System
 OracleXETNSListener		Started	Automatic	Local System

2. Changing the user that SES is running under:

- a. Stop the service if it is currently running; right click on the service and select stop.



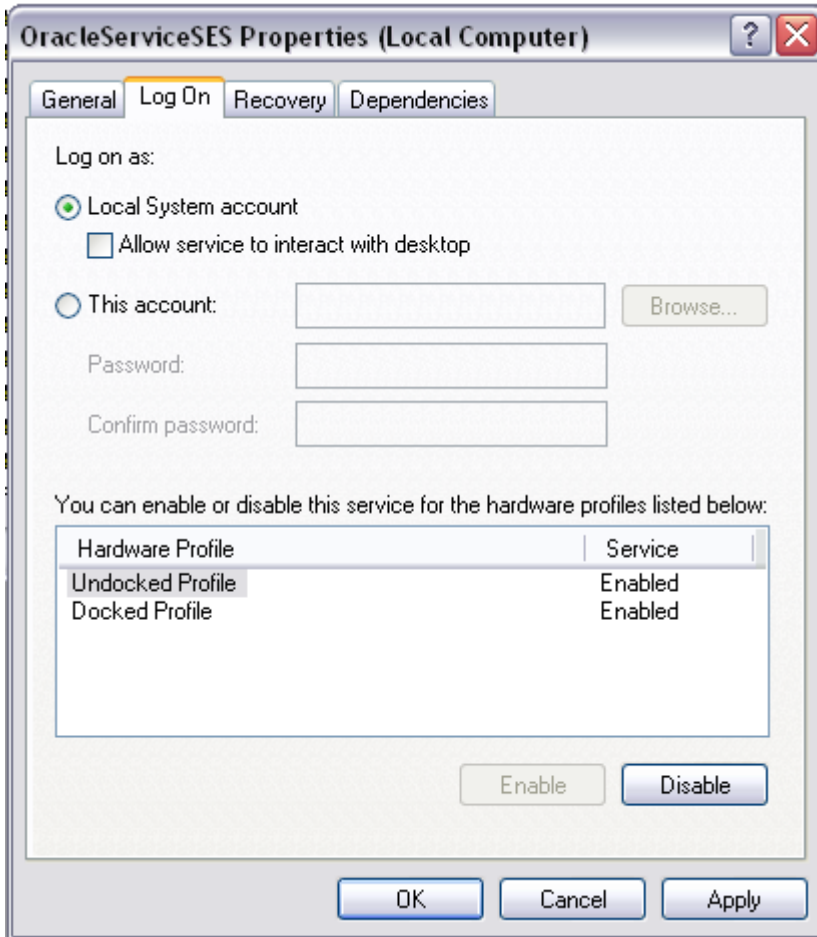
- b. Open the service's properties; right click on the service and select properties.



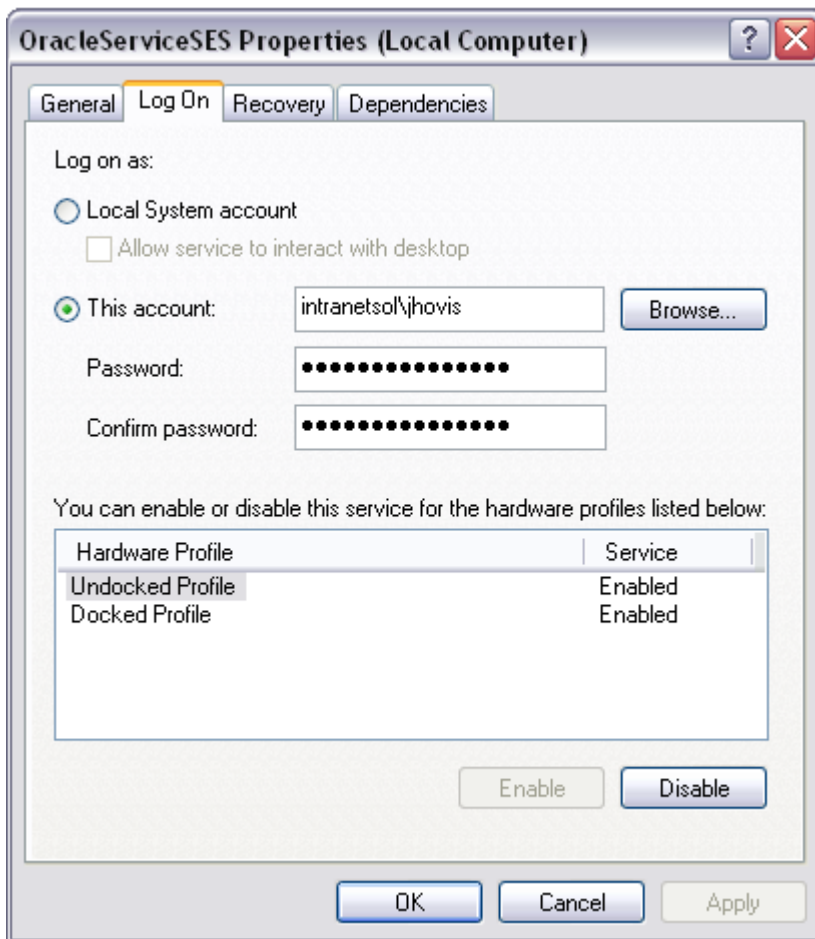
- c. The properties window will open up; click on the logon tab

3. Options for the logon tab:

- a. If the **Local System Account** radio button is filled then the SES service will run under the local system account.

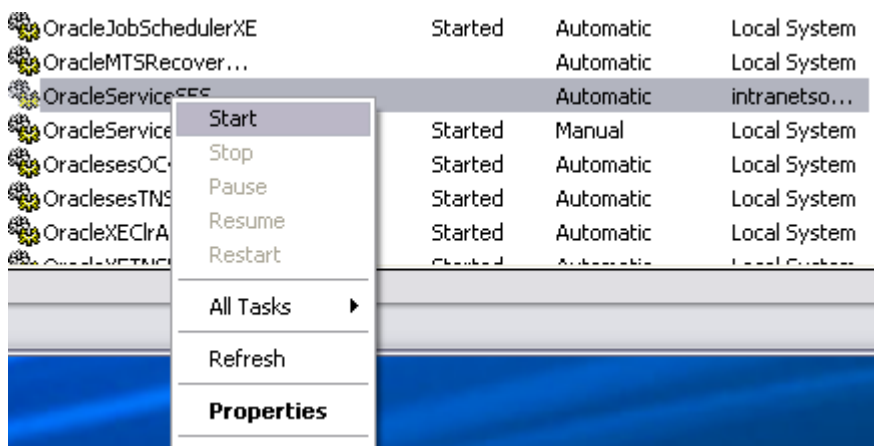


b. If the **This Account** radio button is filled then you can specify the account that the SES service will run under. The user name should contain the domain then a / and finally the user id. In this case our domain is intranetsol and the user id is jhovis. Enter the ID's password.









c. After choosing the ID option that the SES service should run under; click OK

d. Restart the service; right click on the service and select start.



e. The service should be running under which ever ID you specified on the logon tab.

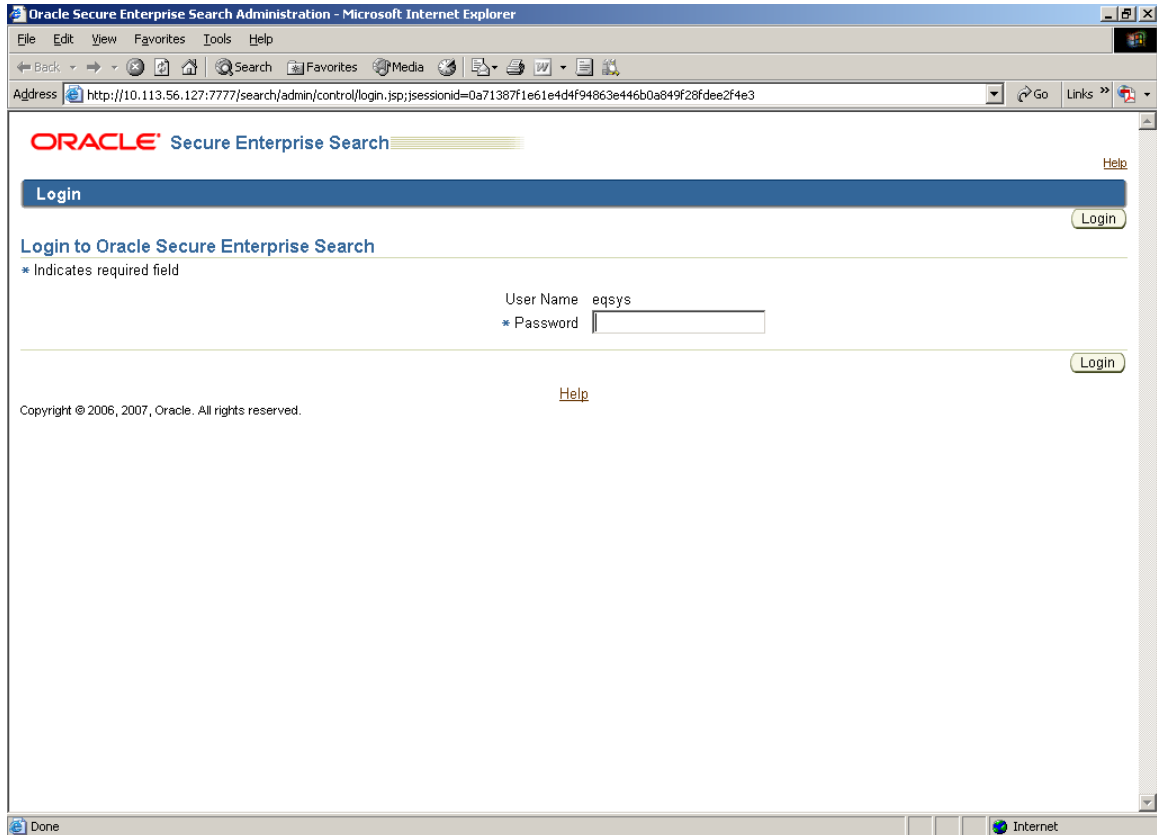
 OracleJobScheduler...	Started	Automatic	Local System
 OracleJobSchedulerXE	Started	Automatic	Local System
 OracleMTSRecover...		Automatic	Local System
 OracleServiceSES	Started	Automatic	intranetso...
 OracleServiceXE	Started	Manual	Local System
 OraclesesOC4J	Started	Automatic	Local System
 OraclesesTNSListener	Started	Automatic	Local System

5.2 Creation of Sources and Source Groups:

Here we create source groups, sources and add documents in the particular sources. These documents are then crawled according to the requirements.

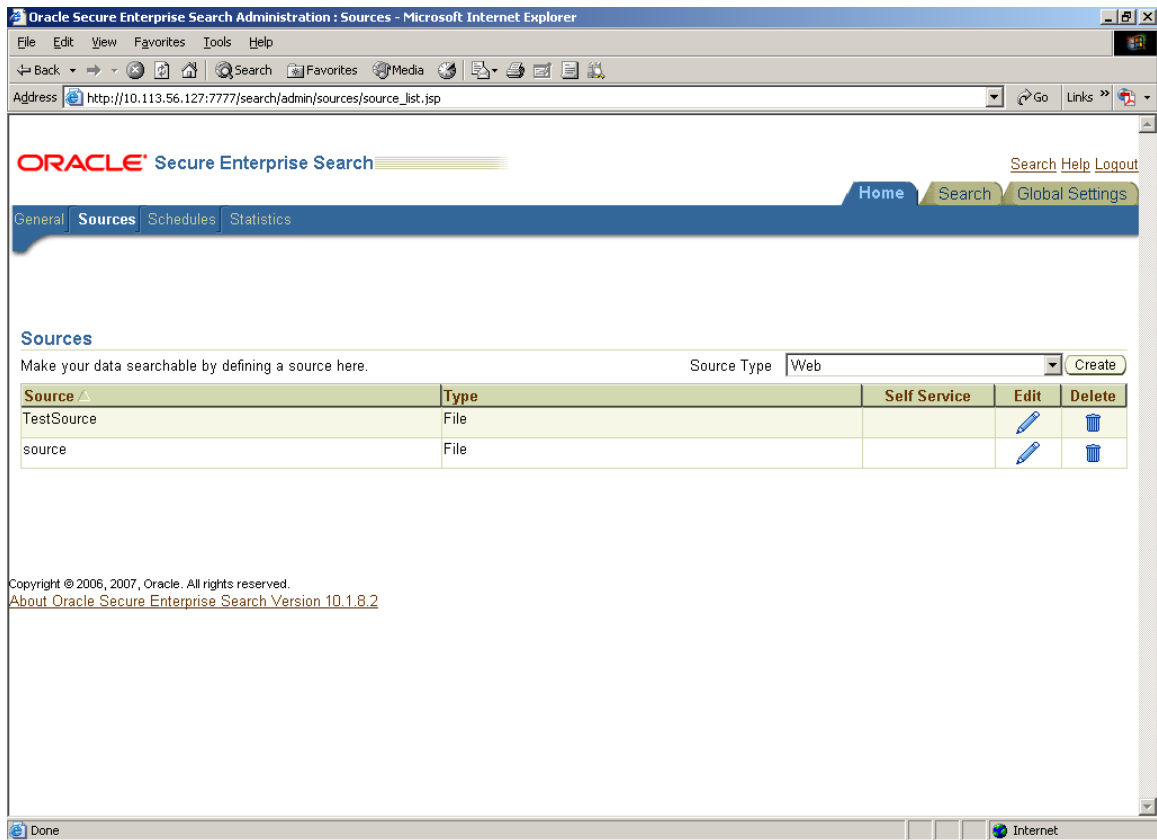
To make a source and source group following these steps:

1. Open the OSES screen → enter the password. A new window will be opened.



The screenshot shows a web browser window titled "Oracle Secure Enterprise Search Administration - Microsoft Internet Explorer". The address bar displays the URL: `http://10.113.56.127:7777/search/admin/control/login.jsp;jsessionid=0a71387f1e61e4d4f94863e446b0a849f28dee2f4e3`. The page content includes the Oracle logo and the text "Secure Enterprise Search". A blue "Login" button is visible at the top right. Below it, the text "Login to Oracle Secure Enterprise Search" is displayed. A note states "* Indicates required field". The "User Name" field contains the text "eqsys". The "Password" field is empty and marked with an asterisk. A "Login" button is located at the bottom right of the form. At the bottom of the page, there is a "Help" link and a copyright notice: "Copyright © 2006, 2007, Oracle. All rights reserved." The browser's status bar at the bottom shows "Done" and "Internet".

2. Click sources -> here new sources are created.



3. Select source type as "File". Click create button. A new window "create file source" will open.
4. Give the source name and the starting URL.

5. Click create button.

The screenshot shows a Microsoft Internet Explorer browser window displaying the Oracle Secure Enterprise Search administration interface. The address bar shows the URL: `http://10.113.56.127:7777/search/admin/sources/create_source.jsp?p_type=file`. The page title is "Create Source - Microsoft Internet Explorer".

The interface includes a navigation menu with "Home", "Search", and "Global Settings". Below this, there are tabs for "General", "Sources", "Schedules", and "Statistics". The "Sources" tab is active, and the breadcrumb "Home > Sources" is visible.

The main content area is titled "Create File Source" and contains a form with the following fields and controls:

- Buttons: "Create & Customize", "Cancel", "Create"
- Source Name:
- Starting URL:
- Start Crawling Immediately:

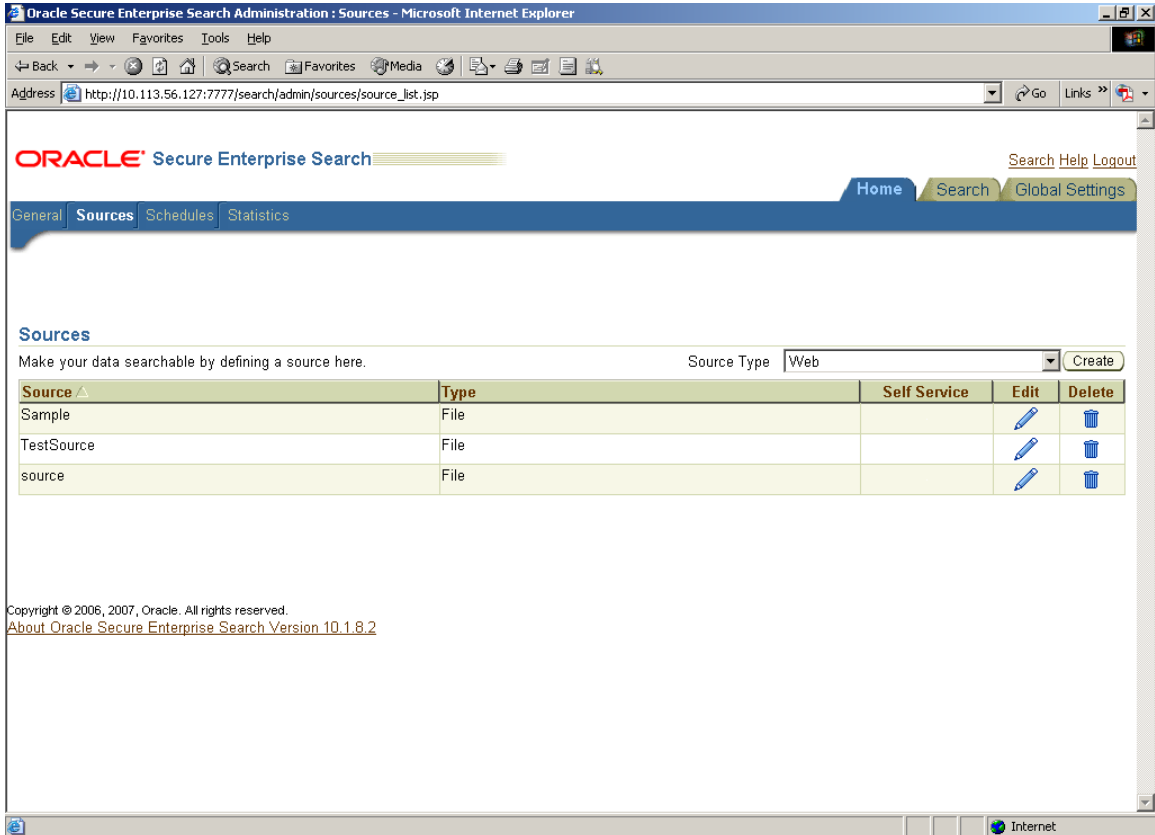
Below the form is a "File Source List" table:

Name	Description
source	file://localhost//10.113.56.132\\Target
TestSource	file://localhost//10.113.56.51\\Docs

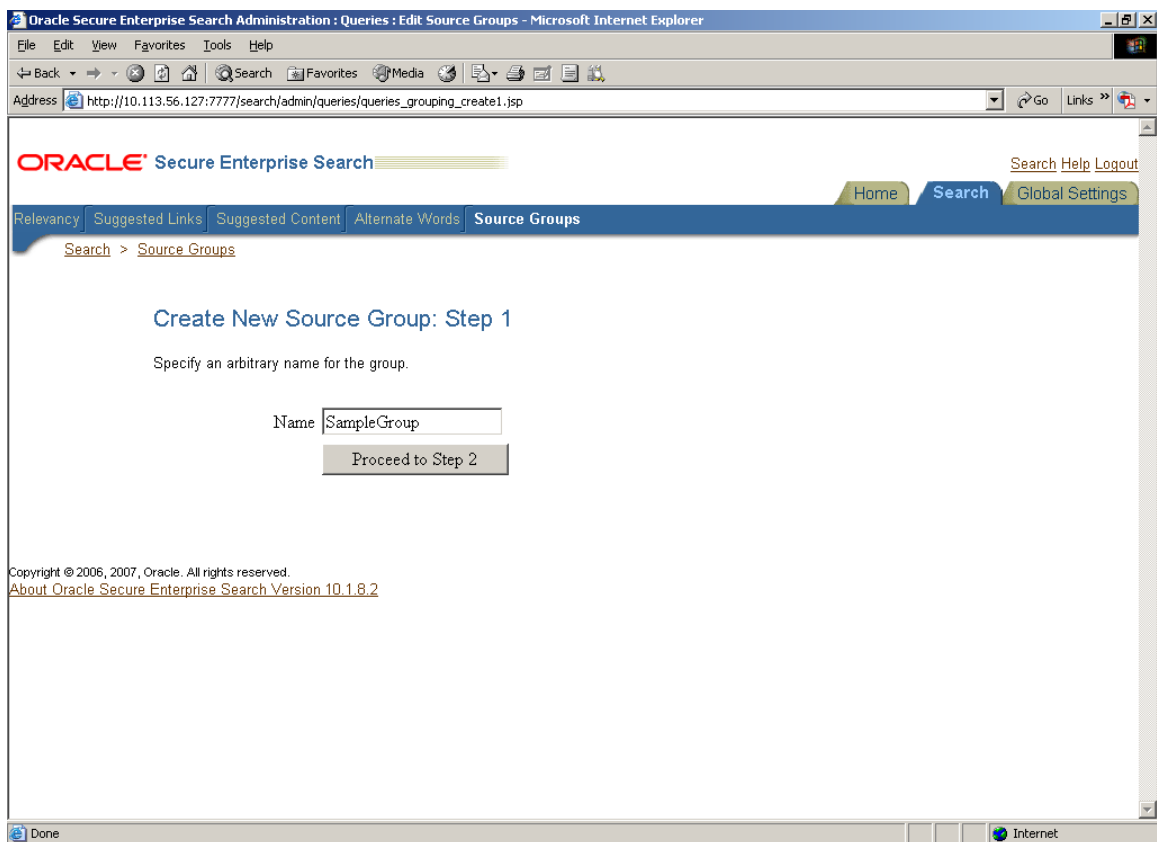
Buttons "Create & Customize", "Cancel", and "Create" are located below the table.

At the bottom of the page, there is a copyright notice: "Copyright © 2006, 2007, Oracle. All rights reserved." and a link: "About Oracle Secure Enterprise Search Version 10.1.8.2".

6. After selecting create button a new source will be created and will be displayed on the sources screen, like this-



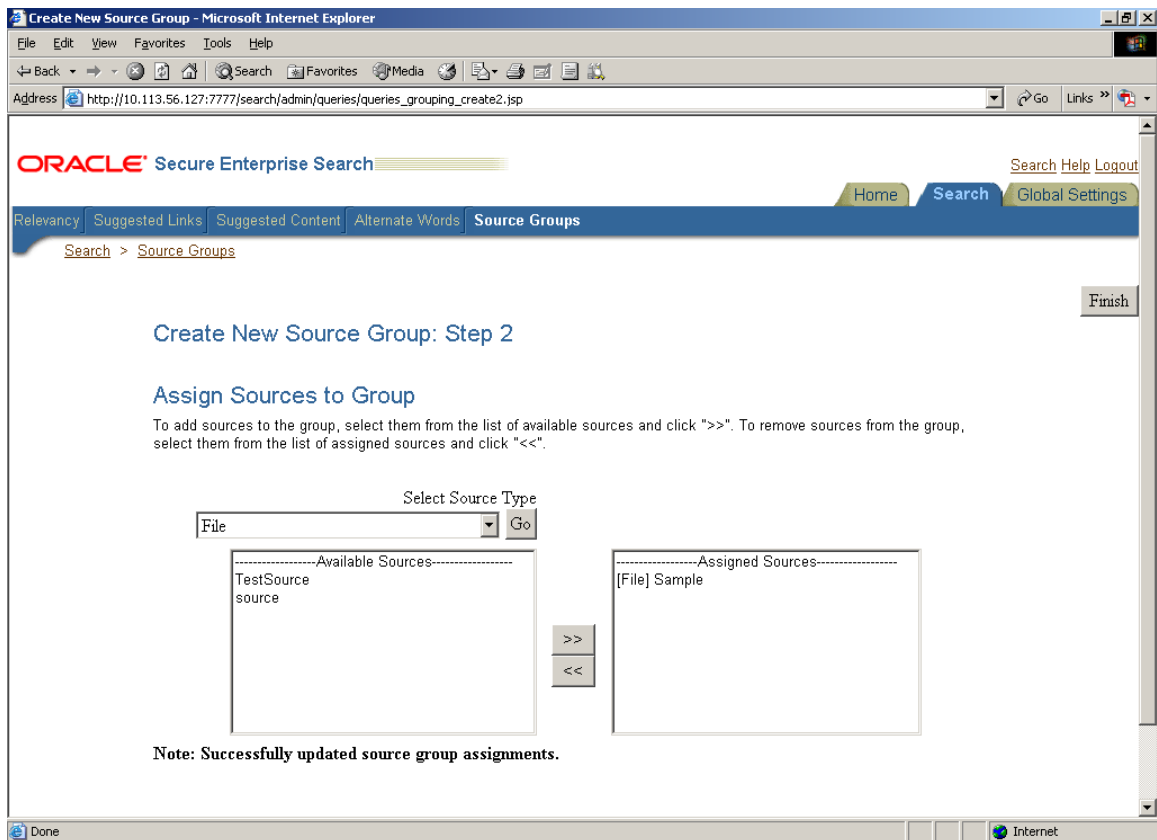
7. To add the source in the source group do the following.
 - 1) Select the search option at the right pane of the page (same page of the above steps).
 - 2) Click on source group.
 - 3) Click create tab
 - 4) Give the name of the source group→ click “proceed to step 2” tab.



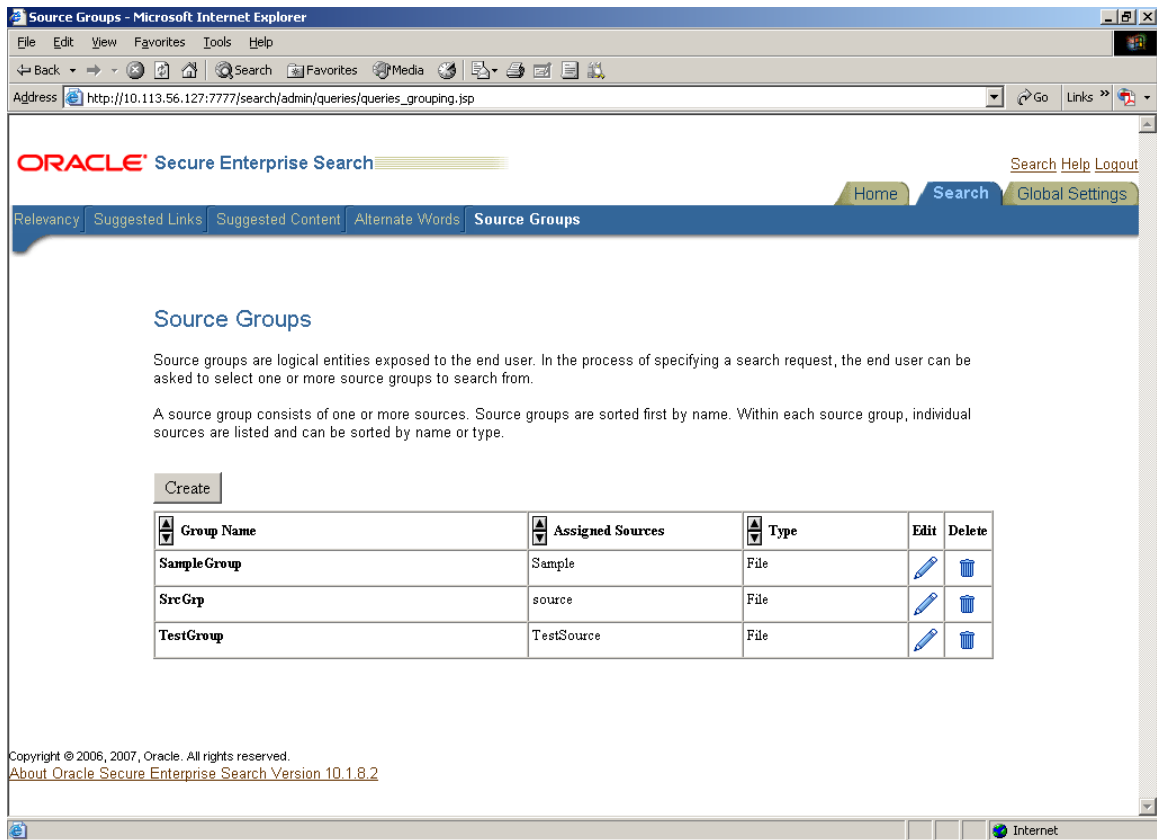
8. After following the above steps a new window will open “Assign Sources To Group”.

1) Select source type as “File” → click Go tab. The newly created source will be displayed in the “Available Sources” option → select the source → click the forward tab. Now the source will be displayed in the “Assigned Sources” option.

2) Click the “Finish” tab at the right pane.

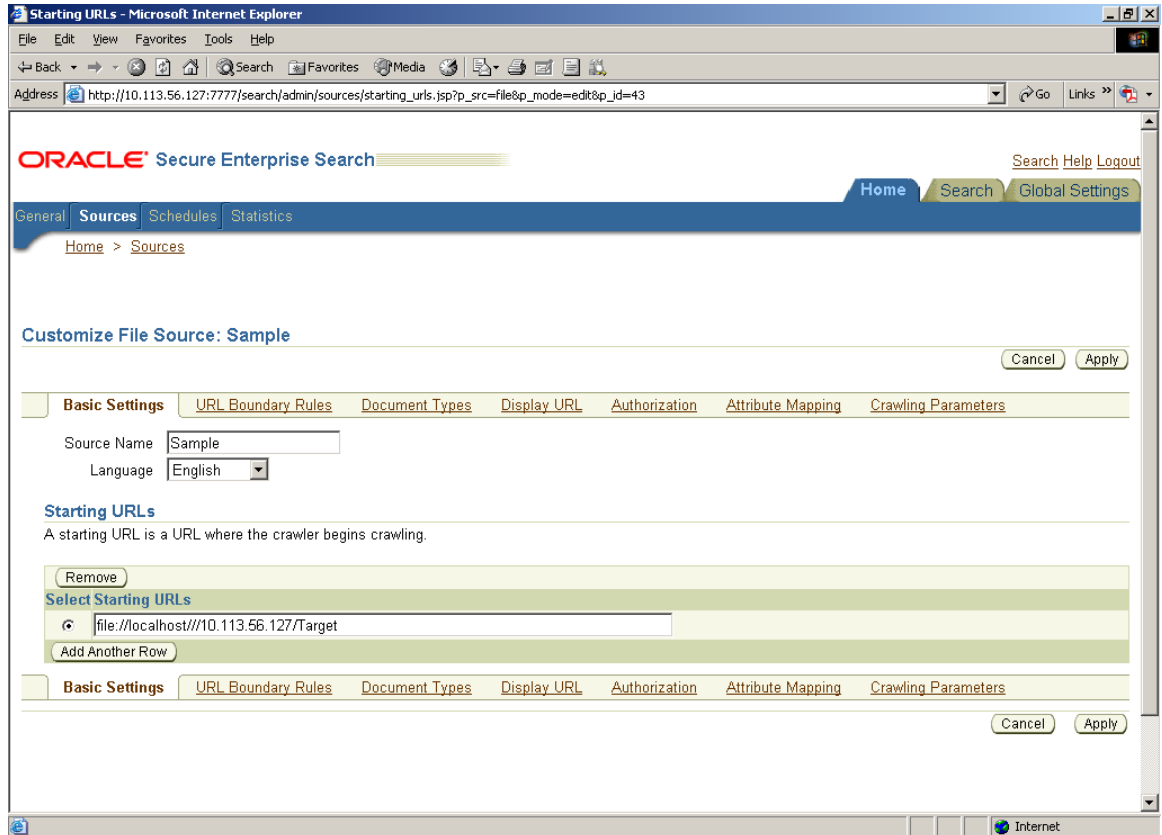


9. A new window is opened having the names of source groups

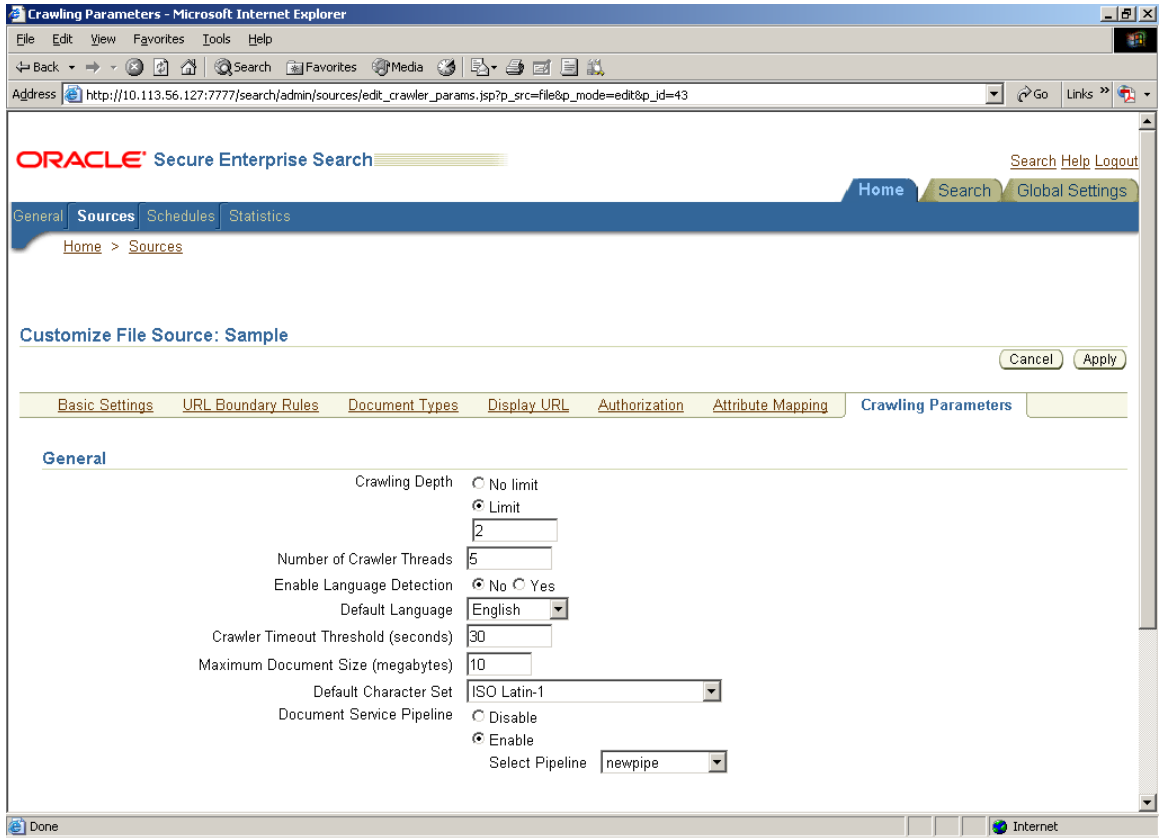


10. Follow these steps:

1. Click on the Home ->Go to Source Tab.
2. Select the source which is created and click on the "Edit"



11. In the Source Screen select the Crawling Parameters to verify the “Select Pipeline”.



12. Click on the Schedules from the Tab.

Oracle Secure Enterprise Search Administration : Schedules - Microsoft Internet Explorer

Address: http://10.113.56.127:7777/search/admin/schedules/schedules.jsp

ORACLE Secure Enterprise Search

Home Search Global Settings

General Sources **Schedules** Statistics

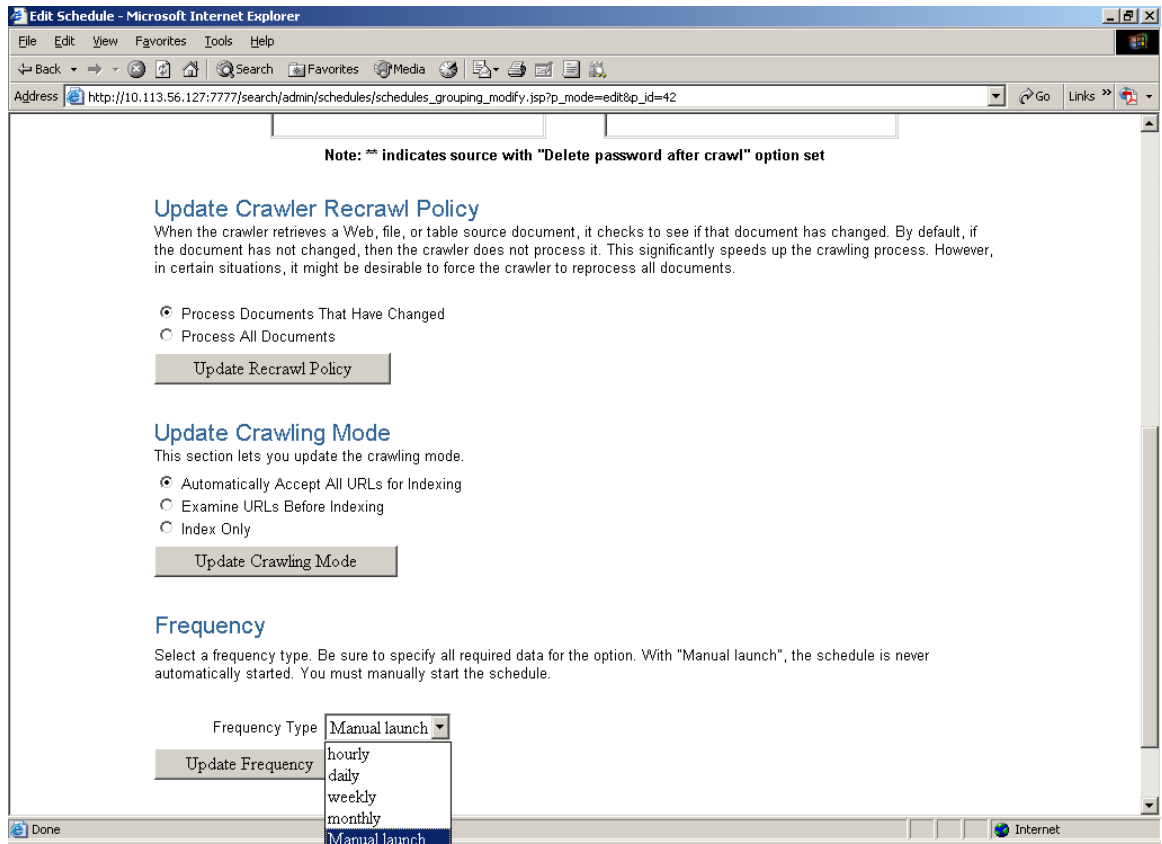
Crawler Schedules Create

Start Stop

Select	Schedule Name	Status	Sources	Type	Log File	Last Crawled	Next Crawl	Edit	Delete
<input type="radio"/>	Example	Scheduled							
<input type="radio"/>	Mailing list Schedule	Disabled	All mailing list sources	Mailing list					
<input type="radio"/>	Sample	Scheduled				Mar 31, 2008 8:30:48 PM			
<input type="radio"/>	Sample_2	Scheduled	Sample	File		Mar 31, 2008 8:39:54 PM			
<input type="radio"/>	TestSource	Scheduled	TestSource	File		Mar 31, 2008 5:37:40 PM			
<input type="radio"/>	source	Scheduled	source	File		Mar 28, 2008 7:30:08 PM			

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 About Oracle Secure Enterprise Search Version 10.1.8.2

13. Select the Source which has been created and click on the “Edit”. Then a new page with Edit schedule will be opened.



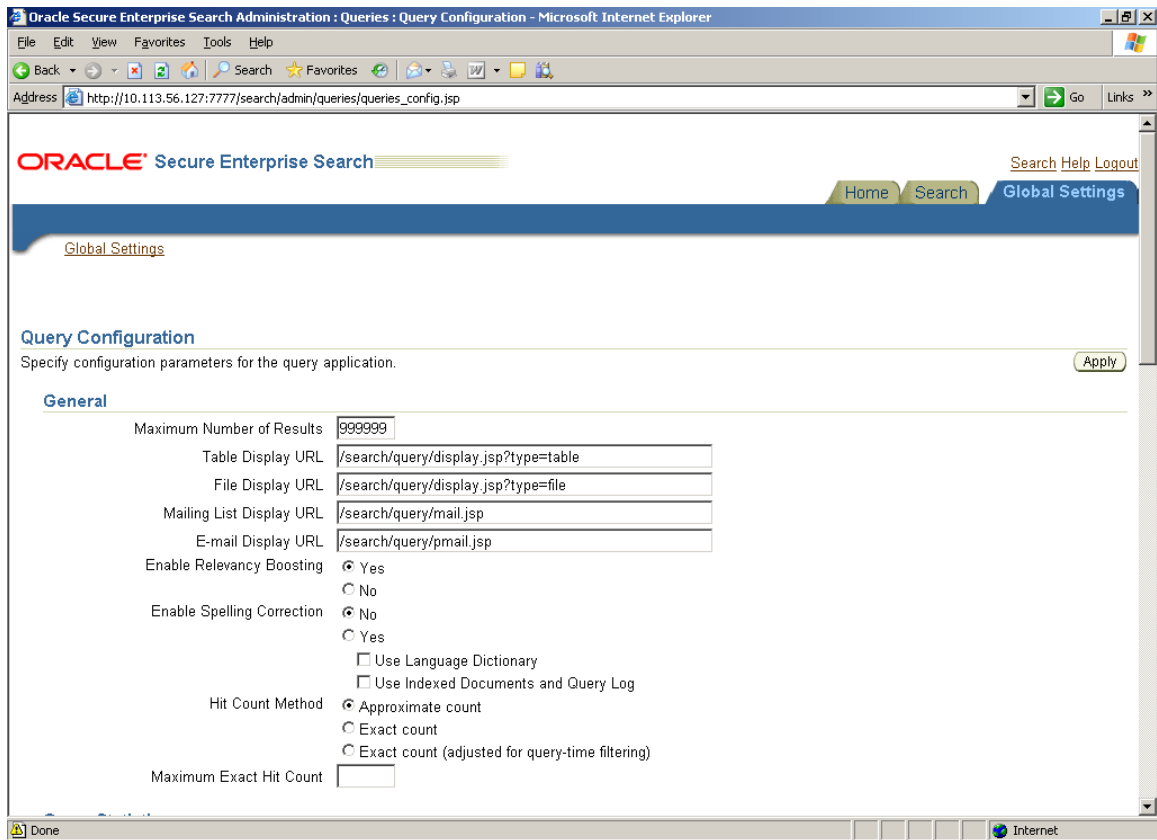
14. From this screen user can specify the frequency of the crawling. The following options will be displayed.

- Hourly
- Daily
- Weekly
- Monthly
- Manual launch

15. Select the option and click on the update Frequency.

16. Set the value of the property (**Maximum Number of Results**) in Global Settings >>

Query Configuration as 999999.



17. Select the source and click on start to schedule the crawling.

18. Apply the setting.

Filename: Filesystem_Administration guide.doc
Directory: D:\Filesystem05152008\Documentation
Template: C:\Documents and Settings\anuj_batra\Application
Data\Microsoft\Templates\Normal.dot
Title: Oracle® Universal Records Management
Subject:
Author: poulomi.dhar
Keywords:
Comments:
Creation Date: 5/15/2008 11:40:00 AM
Change Number: 16
Last Saved On: 6/2/2008 5:56:00 PM
Last Saved By: anuj_batra
Total Editing Time: 41 Minutes
Last Printed On: 6/2/2008 5:56:00 PM
As of Last Complete Printing
Number of Pages: 50
Number of Words: 2,558 (approx.)
Number of Characters: 14,581 (approx.)