

# WebFOCUS

Magnify Search Quick Start Guide Release 8.2 Version 01M

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This guide provides step-by-step instructions on indexing records using the FORMAT Magnify WebFOCUS procedure. The sample Century Electronics search application is used to illustrate each step. This guide is intended for users who need to create search applications with Magnify Search.

# How This Manual Is Organized

	Chapter/Appendix	Contents
1	Getting Started With Magnify Search	Describes how to get started using Magnify Search to create a search application.
2	Indexing With Format Magnify	Describes indexing using the Format Magnify procedure.
3	Organizing Magnify Search Collections	Describes how to organize collections by mapping them to a drop-down menu.
4	Verifying Magnify Search Indexes	Describes how to verify an index after it has been generated.
5	General Tips for Using Magnify Search	Describes additional ways to work with Magnify Search.

This manual includes the following chapters:

# **Documentation Conventions**

The following table describes the documentation conventions that are used in this manual.

Convention	Description
THIS TYPEFACE	Denotes syntax that you must enter exactly as shown.
or	
this typeface	
this typeface	Represents a placeholder (or variable) in syntax for a value that you or the system must supply.
underscore	Indicates a default setting.

Convention	Description
this typeface	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.
Key + Key	Indicates keys that you must press simultaneously.
{ }	Indicates two or three choices. Type one of them, not the braces.
[ ]	Indicates a group of optional parameters. None are required, but you may select one of them. Type only the parameter in the brackets, not the brackets.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis ().
• • •	Indicates that there are (or could be) intervening or additional commands.

# **Related Publications**

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You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through our website, *http://www.informationbuilders.com*. It connects you to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section of *www.informationbuilders.com* also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

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To learn about the full range of available support services, ask your Information Builders representative about InfoResponse Online, or call (800) 969-INFO.

# Information You Should Have

To help our consultants answer your questions effectively, be prepared to provide the following information when you call:

- □ Your six-digit site code (*xxxx.xx*).
- □ Your WebFOCUS configuration:
  - □ The front-end software you are using, including vendor and release.
  - □ The communications protocol (for example, TCP/IP or HLLAPI), including vendor and release.
  - □ The software release.
  - ❑ Your server version and release. You can find this information using the Version option in the Web Console.
- ❑ The stored procedure (preferably with line numbers) or SQL statements being used in server access.
- □ The Master File and Access File.
- □ The exact nature of the problem:
  - Are the results or the format incorrect? Are the text or calculations missing or misplaced?

- Provide the error message and return code, if applicable.
- □ Is this related to any other problem?
- ❑ Has the procedure or query ever worked in its present form? Has it been changed recently? How often does the problem occur?
- □ What release of the operating system are you using? Has it, your security system, communications protocol, or front-end software changed?
- Is this problem reproducible? If so, how?
- Have you tried to reproduce your problem in the simplest form possible? For example, if you are having problems joining two data sources, have you tried executing a query containing just the code to access the data source?
- Do you have a trace file?
- ❑ How is the problem affecting your business? Is it halting development or production? Do you just have questions about functionality or documentation?

#### **User Feedback**

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Thank you, in advance, for your comments.

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Chapter

# **Getting Started With Magnify Search**

Building search-based applications usually requires specialized skills, mainly in information architecture and in extract, transform, and load (ETL) procedures. However, building such applications is no different from building reports. Magnify Category fields and Searchable Content are equivalent to BY fields and PRINT fields, respectively, in WebFOCUS. A Format Magnify WebFOCUS report allows you to easily transform raw data into search content from within App Studio or WebFOCUS.

#### In this chapter:

- Overview of Magnify Search
- Configuring the Century Electronics Demo Before Use
- Introducing Magnify Search: The Century Electronics Demo

## **Overview of Magnify Search**

Information can be found anywhere, such as in databases and files. It can be structured or unstructured, and may have complex connections to other information. Therefore, it becomes difficult for business users to access and understand all this growing information from a single-access point. Magnify Search solves this problem by providing seamless search capabilities on various data sources with links to any application, report, or URL.

This guide demonstrates how you can use a WebFOCUS report to transform raw data into search content. This enables business users to find information and drill down into reports to better understand that information.

In the following sections, you will:

- Review how a Magnify search-based application is used. The Century Electronics sample search application is used to illustrate each feature.
- Review the objects used to build a WebFOCUS Format Magnify procedure.
- Review the naming conventions used to assign column titles, which designate how the Magnify Search interface uses the columns and their data.
- Learn how to create a highly organized and business intelligence-connected enterprise search application with various types of information.

The following image shows the Century Electronic sample search application:

Century								Sign Out
ELECTRONICS	Reviews	Century Electronics KB	<ul> <li>Search</li> </ul>	Results Per Page	: 10 •	Advanced Search		
Results 1 - 10 of about 91 fe	or Reviews. Search took 1.891	1 seconds.		Ia	bular view	/ Sort by sentiment So	ort by query score Sort by date Sor	rt by relevance
Word Cloud		Email Subject Line: Very Good Produ to music because of its cheaper price and i thin asit Email Subject Line Profile for: Leroy Burditt I Shoopel	k it can do the job as			that we bought it at \$280 This View Full Document	: ) Magnify CentSales <mark>Reviews</mark> Email Se	erver Emails
what really more pi	o my up the would december from subject terver trends price pping get line turn at than rofile broase	Email Subject Line: Lovin the Century that much. But for 5144 99 its a great buy My or Email Server Emails as Lemail Profile for: Jamva Littleton Shor	aughter loves it. I se	e <mark>reviews</mark> bagging on Return Trends		capabilities, and making all <u>a This View Full Document</u>	of those apps available. Magnify CentSi	ales <mark>Reviews</mark>
Source System	PP5 just	Email Subject Line: great great Email Subject Line: great great Sergio Soules s loving it Revrone should buy this CE Product) Profile for: Sergio Soules	ergio_soules@earthi YZ for the price its a ing History	link.com AV VideoTowr steal Magnify CentSal A <u>Return Trends</u>		00:00:00.000 Male Decemb Email Server Emails This View Full Document	er earthlink great great i am loving it and	d loving it
Sentiment Score		Email Subject Line: worst tablet grap this one. But you will buy new one Magni	ly CentSales Review		asl Email			
2. Very Bad (1) 3. Bad (5) 4. Neutral (15) 5. Good (34) 6. Very Good (24) 7. Excellent (12)		Profile for: Brenden Wherry		Return Trends		ke This View Full Document		

**Note:** The Magnify Search sample search application is installed by default with App Studio. If not installed, the application directory hosting the reports and images used will need to be set up. For more information on the Century Electronics sample application, see the *Magnify Search Security and Administration* manual.

# Configuring the Century Electronics Demo Before Use

Before you configure and use the Century Electronics demo, you will need to remove all references to any combination of the following query string parameters:

```
proxyreload=1
clearcache=1
collections=<any_value>
```

Any changes made to the collections file or style sheet file will be available after the application server is restarted. To apply changes directly to the collections file without restarting the application server, use the *Refresh Collections* option in the Magnify administration console.

# Introducing Magnify Search: The Century Electronics Demo

Magnify allows you to ask a question across the whole enterprise. By clicking the Search button, Magnify accesses relevant data, such as reports and unstructured content, across various platforms and applications.

1. To navigate to the Century Electronics Demo, use the following URL:

http://host:port/wfcontext\_root/search

where:

host:port

Is the machine name and port number where WebFOCUS is installed.

#### wfcontext\_root

Is the WebFOCUS application root.

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

The default link to the Century Electronics Demo is:

#### http://localhost:8080/ibi\_apps/search

The search page displays, as shown in the following image.

If ype your search term here     Century Electronics KB     V     Search     Results Per Page : 10     Advanced Search	^
To Search Century Electronics Magnify Application: Type your keyword(s) in search box above. Click Search. Search Tips:	
Exact Match: Use double quotation marks to search for two or more keywords that must appear together:     "CE Platform"     Fuzzy Match: Use the ~ (lide) to search for words with similar spelling to the search term.     For example, searching the term "cover" returns words the "cover", "power", ar "over", "power", ar "over".     To search for results similar to "CenturyTable" with spellings of "CenturyTable" or "CenturyTable" use the query:     CenturyTablet-	
<ul> <li>Inclusion: Use a + (plus sign) in front of keywords that must appear in the search results. To search for results that must contain "plasma" and may contain "TV" use the query: TV +plasma</li> </ul>	
Exclusion: Use a - (minus sign) in front of keywords you want to exclude from your search. To search for results that contain "stores" but not "United States" use the query: stores -"United States"	
ASCII Folding: Search across ISO 8659-1 Characters with or without specific accents. To search for results that contain "ñ" use either the "n" or "ñ" character. Cataluña or Cataluna	
<ul> <li>Boolean: Use logical operators such as OR, AND, and NOT (case sensitive) to link groups of terms together for a more powerful search. To search for results that contain "music teachers" or both "MP3" and "VHS", but not "New York" use the query:</li> </ul>	+

- 2. Type Camera in the input field.
- 3. Expand and review the Collection List drop-down menu, as shown in the following image.

The Collection List points to one or more Magnify index libraries, where enterprise information has been organized and made searchable, as shown in the following image.

Century Electronics KB	
Product Reviews Customer Profiles Employee Directory Sales Records Shipping Centers Product Catalog Vendor Groups File Assets	above. Click Search.
arch for two or more keywords that must	appear together:
F C E S S P V F	Product Reviews Customer Profiles imployee Directory ales Records shipping Centers Product Catalog Vendor Groups ile Assets

- 4. Review the Search Tips.
- 5. Change Results Per Page from 10 to 20.
- 6. Submit the search by clicking the Search button.

The search results display, as shown in the following image.

Century LECTRONICS	Camera	Century Electronics KB
ults 1 - 20 of about 300	for Camera. Search took 1.325 seconds	s. <u>Tabular view</u> / <u>Sort by query score</u> <u>Sort by date</u> Sort by relevan
Word Cloud		Order Detail: 97041 - EMart. Rep. Franco Ricotti (Hubert Mengel). Zoom Digital Camera EavyShot Digital Camera 8 Megapixel DVD Easycam Camcorder 18x Power Zoom EasyShot Digital Camera EasyShot Digital Camera 6.1
Source System	Mega	Zoomi bijata (zamera Easyshoti bijata (zamera si Megapixei UVD Easycam Camcoroer tisk Power Zoom Easyshot bijata (zamera Easyshot bijata (zamera 6.1 pipel Hubert Henger Tspatia) Izventoad PDF Receipt More Like This View Full Document
Country		
Region	E • 🔬	Catalog Item: EasyShot Digital Camera 6.1 Megapixel (IDC-610).
State	E •	of the most easy to use lines of dipicans. Visit to view the Century Electronic Camera and compare different cameras at a glance. EasyShot Digital Camera 6.1 Megaptick The hips-mol Camera fair at the in your back code (Century Electronics' EasyShot Digital Camera 6.1 Megaptice) Electronic Camera 6.1 Megaptick The hips-mol Camera fair and the interview of the camera at a glance. EasyShot Digital See Smilar Products Like Return Trends Product Forecasting More Like This View Full Document
Store Name		
Sender	E • 🔬	Catalog Item: EasyShot Digital Camera 8 Megapixel (DC-300) of the most easy to use lines of digicams. Visit to view the Century Electronic Camera model list, and compare different cameras at a glance. EasyShot Digital
Ethnicity		Control to the first cases of the set o
Age Range		
Product Type	E • 🔬	Catalog Item: EasyShot Digital Camera (DC-100) of the most easy to use lines of digicams. Visit to view the Century Electronic Camera model list, and compare different cameras at a plance. EasyShot Digital
Product Category		Camera in high-end camera inter the solution of the solution o

The results have the following elements:

- General information, including the number of records and speed.
- Results, including the main link, snippet, and additional links.
- Dynamic Categorization Tree and the Breadcrumb trail.
  - 1. Expand Source System to filter that category, as shown in the following image.

Source System	1
Customer Profiles (1132) Email Server (8) Employee Directory (109) File Server (2) Product Catalog (5) Sales Records (2130)	

2. Click Sales Records to limit the results to sales records, as shown in the following image.



The Breadcrumb trail shows the path from Camera to Sales Records.

- **Sorting.** You can sort search results by various ranking attributes. Sort by relevance is selected by default.
  - 1. Click Sort by query score, then click Sort by date.
- □ **Facetcounts.** The category tree count includes all matching items in the entire index library, and is not limited to the maximum records returned in the search.

**Note:** Although only 300 records are returned due to the record limit, there are actually 2,130 records that match the search criteria associated with the Sales Records category under Source System, as shown in the following image.



- ❑ Analytics. You can use the tabular view to perform additional analytics on your search results with its embedded analytic engine. For example, you can review how many camera orders are found by country and then look deeper by region.
  - 1. To see a tabular view, click Tabular View.
  - 2. Click the drop-down arrow on the *Title* column.
  - 3. Select *Rollup*, and then *Country*, as shown in the following image.

Century	Camera		Century Electronics KB • S	earch Results Per	r Page : 20 🔹	Advanced Searc	0		
ults 1 - 20 of about 300 for (	Camera. Search took 0.	Camer	a > <u>Sales Records</u>		Search Re	sults View /	Sort by query scr	ore Sort by da	te Sort by relev
Nord Cloud		-	xds, Page1 of 30 ►  ►►		Source System *				
Source System		Order Deta	il: 97041 - EMart, Rep. Franco Ricotti (Hub	ert Mengel)	Sort Ascending Sort Descending		Region Vest South Central		Store Name *
• Sales Records (2130)		Order Deta	il: 74448 - EMart, Rep. Gil Giati (Jordy Oles	)	Filter Calculate Chart	nited States	Mountain	<u>Colorado</u>	<u>EMart</u>
Country		Order Deta	il: 75710 - City Video, Rep. Carlos Vadesuso	Group By (X) (COU)	Rollup Pivot (Cross Tab)	nited States	East North Central	Michigan	<u>City Video</u>
Region		Order Deta	il: 95877 - EMart, Rep. Ge Kapteijn (Cheryl	TITLE Source System	Chart/Rollup Tool Pivot Tool	nited States	Pacific	California	EMart
		Order Deta	il: 95904 - EMart, Rep. Elide Lucas (Dollie F	Country Region	Show Records Comments	nited States	South Atlantic	Florida	EMart
State		Order Deta	l: 96441 - AV VideoTown, Rep. Philip Van P	State Store_Name eperstracte (Ines_Ner	Export Print Window	nited States	North	<u>Minnesota</u>	AV VideoTown
Store Name		Order Deta	il: 28097 - AV VideoTown, Rep. Osamu Arai	(Esteban Booth)	Restore Original Sales Records	United States	East South Central	Kentucky	<u>AV VideoTown</u>
		Order Deta	il: 28212 - ABC Electronics, Rep. Robin DeV	itte (Kris Ketter)	Sales Records	<u>Canada</u>	Est	<u>Ontario</u>	ABC Electronics
		Order Deta	il: 28432 - EMart, Rep. Denise Daddario (Ht	bert Goering)	Sales Records	United States	New England	Massachusetts	EMart
			ll: 28673 - Audio Expert, Rep. Bjorn Daniels		Sales Records	United States	West South Central	Texas	Audio Expert

4. Click the chart drop-down menu, and select *Group By* (*X*) and then *Region*, as shown in the following image.

TITLE By Country		
	∠ 🏼 🛣 🗳 🔒	$\sum$ Count
Group By (X)	√ Country	
Add (Y) Chart/Rollup	TITLE	
Tool Restore Original	Source_System	
France	Region State 🖑	
Germany	Store_Name Product_Type	
Secio	Product_Category	
Spain United States	Gender Ethnicity	
<u> </u>	Age_Range	

The Region field is added to the Rollup chart, as shown in the following image.

		2
	f23 records, Page <u>1</u> of 3 ▶ ▶	•
	ountry, Region	-
Country	Region	Fitle 🍐
Canada	Est	31
Canada	Ouest	7
France	lle de France	5
France	Nord-Pas-De-Calais	2
France	Pays de la Loire	3
France	Provence - Alpes du Sud	2
Germany	Nord	2
Germany	Ost	7
Germany	Süd	2

5. Click the X in the upper-right corner to close the Rollup chart.

#### **Drill Down into Business Intelligence Reports.**

- 1. Click Search Results View.
- 2. Click on the first main title link, Order Detail: 28006, as shown in the following image.



Notice that multiple purchases have been aggregated into a single searchable order, as shown in the following image.

w	bFOCUS A	ctive Report					å <b>-</b> (	a - 🗆 🖶	a ▼ Page ▼	Safety 🔻 Tools 🔻 🔞	• **
5											
							Order Details				
ID 🔻	Date 🔻	Customer 🔻	Store 🔻	Sales Rep 🔻	Plant 🔻	Category 🔻	Product 🗸 🗸	Quantity 🔻	Returned 🔻	Profit 🔻	
19881	12/19/2006	Jordy Cone	Audio Expert	Bjorn Danielson	Dallas	Digital Cameras	EasyShot Digital Camera 8 Megapixel	58	5	\$17,342.00	
19881	12/19/2006	Jordy Cone	Audio Expert	Bjorn Danielson	Dallas	Speakers	6-Piece Home Theater Speaker System	99	9	\$28,611.00	-
19881	12/19/2006	Jordy Cone	Audio Expert	Bjorn Danielson	Dallas	Receivers	7.1 Channel THX Home Theater Receiver	99	9	\$39,501.00	
19881	12/19/2006	Jordy Cone	Audio Expert	Bjorn Danielson	Dallas	Organizers	Easyfile Electronic Organizer 10MB Memory	258	25	\$7,482.00	1
19881	12/19/2006	Jordy Cone	Audio Expert	Bjorn Danielson	Dallas	Digital Cameras	EasyShot Digital Camera 6.1 Megapixel	258	25	\$48,762.00	

#### Signing Out From Magnify Search

After you have completed performing your searches for a given session, you can sign out from Magnify Search if required.

Magnify Search includes a Sign Out hyperlink, located in the upper-right corner of the screen, as shown in the following image.

<b>6</b> Century							Sign Out
ELECTRONICS	Type your search term here	Century Electronics KB •	Search	Results Per Page :	10	•	
	Advanced Search					_	

Click Sign Out to log out from Magnify Search. You are returned to the WebFOCUS Sign In screen.

#### Magnify Advanced Search Syntax

Magnify features custom query syntax, which allows you to focus searches on specific results:

**Exact Match.** Use double quotation marks (") to search for two or more keywords that must appear together.

To search for results where the term *CE Platform* is found together, use the following query:

"CE Platform"

**Fuzzy Match.** Use the tilde (~) to search for words with similar spellings.

To search for results similar to CenturyTablet but with spellings such as *CenturyTablt* or *CenturyTable*, use the following query:

CenturyTablet~

An additional, optional parameter can specify the required similarity. The accepted values are between 0 and 1, with values closer to 1 signifying higher similarity. For example:

CenturyTablet~0.7

□ **Proximity Match.** Use the tilde (~) followed by a number to represent the maximum number of words apart that two terms can be found.

For example, searching for "red apple"~3 returns only results where *red* and *apple* are found within three words of each other.

To search for results where the term *Tablet* is found within five words of the term *money*, use the following query:

"Tablet money"~5

□ Inclusion. Use a plus sign (+) in front of keywords that must appear in the search results.

To search for results that must contain *plasma* and may contain *TV*, use the following query:

TV +plasma

**Exclusion** Use a minus sign (-) in front of keywords that you want to exclude from your search.

To search for results that contain stores but not United States, use the following query:

stores -"United States"

**ASCII Folding.** Search across ISO 8859-1 characters with or without specific accents.

To search for results that contain  $\tilde{n}$ , use either the *n* or  $\tilde{n}$ qq character, as shown in the following query:

Cataluña or Cataluna

**Boolean.** Use logical operators, such as OR, AND, and NOT (case-sensitive), to link groups of terms together for a more powerful search.

To search for results that contain *music teachers* or both *MP3* and *VHS*, but not *New York*, use the query:

("music teachers" OR (MP3 AND VHS)) NOT "New York"

Note: You can use parentheses () to group specific clauses.

❑ Wildcard: Use an asterisk (\*) or question mark (?) anywhere in a term to expand your search.

To perform a single-character wildcard search, use a question mark. This single-character wildcard search looks for terms that match with the single character replaced. To perform a multiple-character wildcard search, use an asterisk. The multiple-character wildcard search looks for zero or more characters. For example:

D?D or D\*D

#### Notes:

- You cannot use an asterisk or question mark as the first character of a search string.
- □ These types of search may take longer than a typical search.

#### Summary

The Magnify search application gives users access to any and all enterprise information by searching it all at once and including tools to understand that information. Magnify also handles the process of delivering enterprise information for search. Magnify transforms raw data into search content by identifying relationships in the data, categorizing metadata, and making all fields, tables, and data sources searchable. At the same time, Magnify associates each result with Business Intelligence reports tailored by context. For information on how this is done with Format Magnify, see *Indexing With Format Magnify* on page 21.



# **Indexing With Format Magnify**

The Format Magnify procedure allows you to create an index directly from within WebFOCUS or App Studio.

The procedure transforms data into search content and sends it to Magnify where it is processed and stored as a search result in the Magnify index library.

These topics describe using procedures to index the Movie and Car Master Files.

#### In this chapter:

- Prerequisites for Indexing With the Movie and Car Files
- Indexing the Movie File
- Indexing the Car File
- Writing Magnify Feed Documents to Disk

#### Prerequisites for Indexing With the Movie and Car Files

The Movie and Car files create indexes based on the WebFOCUS configuration settings. Because the WebFOCUS environment settings can vary, they first prompt for the same specific setting.

For these examples, you must initially disable procedure parameters.

Before changes are made, it is recommended that you back up the following files: carmgn.fex and moviesmgn.fex. These files are in the \ibi\apps\ibisamp folder.

#### **Disable Procedure Parameters**

You will be prompted for two parameters when the carmgn.fex and moviesmgn.fex files are opened in the Report canvas or when you execute the Format Magnify Movie and Car examples. These parameters are required in order for the WebFOCUS procedure to know where to send its output to feed Magnify Search. The first parameter is for the sever that Magnify Search is installed on (which may include a port number), and the second is the WebFOCUS context root, in which Magnify Search is defined, as shown in the following image.

Please enter values fo	or procedure's parameters.	/
Name	Value	_
WHAT_IS_MAGNIFY_	URL:port	_
WHAT_IS_ibi_apps		
/		
<		<b>&gt;</b>

WHAT\_IS\_MAGNIFY\_URL:port. host:port

WHAT\_IS\_ibi\_apps. wfcontext\_root

where:

host:port

Is the machine name and port number where WebFOCUS is installed. *wfcontext\_root* 

Is the WebFOCUS application root.

By default, *host:port* is *localhost:*8080 and *wfcontext\_root* is *ibi\_apps*, but because installations can be configured differently, you may need to confirm this with your WebFOCUS Administrator.

**Note:** If you do not want to receive this prompt, you can edit the code of the procedure to disable these prompts.

To comment out the prompts:

1. In App Studio, navigate to *Data Servers* under *Configured Environments*, expand *Applications* and then the *ibisamp* folder.



2. Right-click the *carmgn.fex* or *moviesmgn.fex* file and then select *Open in Text Editor* from the context menu.

The file you selected (*carmgn.fex* or *moviesmgn.fex*) opens as a new tab in the main workspace area and provides you with a text view of the code.

- 3. Uncomment the -\*DEFAULTS lines, as shown in the following images.
- 4. Enter your WebFOCUS configuration.

**Note:** The first image shows the original view of the code, and the second image shows the result after these lines have been uncommented.

#### FROM:

```
-*DEFAULTS &WHAT_IS_MAGNIFY_URL:port='localhost:8080';
-*DEFAULTS &WHAT_IS_ibi_apps='ibi_apps';
SET ASNAMES=MIXED
ENGINE MAGNIFY SET CONNECTION_ATTRIBUTES MY_PC 'http:/
ENGINE MAGNIFY_SET BASEURL=http://&WHAT_IS_MAGNIFY_URL:
```

TO (using your host:port and wfcontext\_root):

```
-DEFAULTS &WHAT_IS_MAGNIFY_URL:port='localhost:8080';

-DEFAULTS &WHAT_IS_ibi_apps='ibi_apps';

SET ASNAMES=MIXED

ENGINE MAGNIFY SET CONNECTION_ATTRIBUTES MY_PC 'http://&WF

ENGINE MAGNIFY SET BASEURL=http://&WHAT IS MAGNIFY URL:port
```

5. Save and close the file.

Note: The prompts should no longer display.

# Indexing the Movie File

This section illustrates Magnify Search indexing by feeding the Movie file. The data has already been assigned to Magnify Search Meta Tags and other reserved alias names to create a Magnify Search index library based on the Movie information.

1. Open the Movie file to review all available data.

In App Studio, create a project pointing to the sample directory, *ibisamp*, if not already created.

2. Review the Movie file (moviemgn.fex).

**Note:** This file is installed with the WebFOCUS Reporting Server under the *ibisamp* application directory.

a. Right-click the *moviemgn.fex* file and select *Open* from the context menu, as shown in the following image.

Environments Tree	<b>→</b> # ×
🛃 🕂 🛅 📄 🚜 🔜 🍱	R 🗰 🏹
Configured Environments	
🖃 🌍 localhost	
Data Servers	
EDASERVE	
Applications	
🕀 🔁 baseapp	
ibidemo	
ibimagn	
🖻 🔁 ibisamp	
	fav
carinst.fe	
arinst2.f	
carmgn.f	ex
	all.fex
	transform.fex
	.fex
mntget1.	fex
M mntivp.n	nnt
(iii) mntupd1	
moviemo	
mrsz	Open
mrsa	Open in Text Editor
- i oesfi	Edit in Windows Associated Tool
prod [] rpcc	Drint
in the second	Print

The Procedure View panel is opened for the *moviengn.fex* file, as shown in the following image.

AS 📡	i 🗐 🕼 😹 🖘	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	⊜ - =							App Studio	- moviemgn.f	fex
-	Home Report	Format	Data Layout	Vie	w Images							
Filter Filter	Header & Footer V	ow Total	Compound Doc Universal Conce Sorted Data Report	itenatio	on	None Traffic Lights	•	Change Theme Theme	Save Theme	pe Report	• B I • • • I Style	<u>uu</u> 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	cedure View		▼ 4		Report ×							
g T Environments Tree	File moviemgr Comment Fingener Define Define Dalogue M DM if DM if DM if DM if DM Label HmiForm DM Label	GNIFY	nts		Object Inspecto Object Inspecto Search Title MagnifylD C1_CATEGORY C1_CATEGORY C2_RATING C2_RATING C2_RATING S, Title S, Title S, S, Title S, S, S	UE_KEY		PAGE 1 SearchTitle Autonomous>> Buttonomous>>	MagnifyID Axxxx Bxxxx	WF_INDEX_UN Axxxx Bxxxx	QUE_KEY	C1_CAT. AXXXXXXX BXXXXXXX

b. Double-click the *Engine MAGNIFY* object in the Procedure View panel.

The MAGNIFY search engine properties dialog opens, as shown in the following image.

TES MY_PC http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/saxfeed' movies incremental
movies incremental
movies incremental
incremental
text/plain
cost plant
Concerption (

Review the following properties:

- **CONNECTION\_ATTRIBUTES.** Magnify Search location.
- **BASEURL.** WebFOCUS procedure URL.
- □ **MIME.** Document type.
- **DATASOURCE.** Magnify Search index library destination directory.
- c. Double-click the Set object in the Procedure View panel.

The Set dialog opens, as shown in the following image

sed Settings				Current Value		
ASNAMES				MIXED		
			To Top	FOCUS		
			Up	MIXED OFF		
			00	ON		
			Down			
			To Bottom			
Available Settings						
ACCBLN ACCESSHTML	AUTOSTRATEGY BASEURI	DEFINES DROPBLNKLINE	GRAPHENGINE GRAPHSERVURL	KEEPDEFINE LANG	OVERFL PAGE-N	Browse
CCESSIBLE	BOTTOMMARGIN	DUPLICATECOL	GRMERGE	LAYOUTGRID	PAGESI	
ACCESSPDF	BYDISPLAY	EMBEDHEADING	GRWIDTH	LAYOUTRTL	PANEL	Add
ACROSSLINE	BYPANEL	EMPTYREPORT	HDAY	LEADZERO	PASS	
ACROSSPRT ACROSSTITLE	CARTESIAN CDN	ERROROUT EXPANDBYROW	HIDENULLACRS HNODATA	LEFTMARGIN LINES	PCOMM, POPUPE	Delete
ALL	CENT-ZERO	EXTSORT	HOLDATTR	LOOKGRAPH	PRINT	Delete
AREXPIRE	COMPMISS	FIELDNAME	HOLDFORMAT	MESSAGE	PRINTD:	
ARPASSWORD	COMPOUND	FILENAME	HOLDLIST	MULTIPATH	PRINTPL	Check
ARUNITCALC	COMPUTE	FIXRETRIEVE	HOLDMISS	NODATA	QUALCH	
ASNAMES	CSSURL	FOC144	HOLDSTAT	NULL	RIGHTM	
AUTODRILL AUTOFIT	CURRSYMB DBACSENSITIV	FOCEXURL	HTMLARCHIVE HTMLCSS	OFFLINE-FMT ONFIELD	SAVEDM	
	DEFCENT	FOCSTACK	HTMLENCODE	ONLINE-FMT	SHADO\	
	DEFECHO	FOCTRANSFORM				
	2010	1 oction and 1	2011011	onterninion		
<					>	
Set Help						
AUTOPATH <			JOINOPT	ORIENTATION	SHORTF >	

Note: You must set the ASNAMES setting to MIXED in order to preserve case-sensitivity.

d. Double-click the Define object in the Procedure View panel.

OVIES'			^	Defined Fields Fields List	
				Names 달 <u>S_HARDCODED</u> 달 TITLE_URL 달 LINK_DISPLAY_NAME 답 LINK_URL1	Description
			>		
LT GT	+ 7	8	9		
II LE GE	- 4	5	6		
IF EQ NE THEN AND OR	* 1	0	3		
ELSE NOT	** ()		U		
Functions					

The Define dialog opens, as shown in the following image.

Review the following defined fields:

- □ **S\_HARDCODED.** Optional hard-coded content to be included with the data being indexed. This can include values that are not otherwise found in the original data.
- □ **TITLE\_URL.** One or more fields to dynamically build the main title drill-down link of each search result.
- LINK\_DISPLAY\_NAME1. One or more fields used as the string name for the first additional link.
- LINK\_URL1. One or more fields to dynamically build the first additional drill-down link for search result.
- e. Double-click the *Report* object in the Procedure View panel and change the output format.
  - Click the Format tab.
  - Select the *Output Format* drop-down.

Expand the Styled report formats menu and select HTML Web document (HTML), as shown in the following image.

Fo	rmat	Data	Layout	t View	w Images					
	X	6		2					þ	$\overline{\mathbf{A}}$
tive DF	Excel	PowerPoint		out Forma AGNIFY) <del>-</del>	t Output Forma Options	it [	Destination (HOLD)	Table of Contents •	Freeze	On-Demand Paging
		Output Ty	pe	Styled re	port formats 🕨		HTML W	eb Document	(HTML)	
				Unstyled	formats		HTML Tal	ble (HTMTABL	E)	
				Databas	e formats 🔹 🕨		HTML Ac	tive Report (A	HTML)	
			_				Active Re	port for PDF	(APDF)	
					Ot		DHTML	Veb Documer	nt (DHTN	
					Colu		Portable	Document Fo	ormat (Pl	OF) GE 1

- Click Save and then click *Run* from the Quick Access Toolbar.
- Review how the data is modeled. Notice what mix of fields are used to define various Magnify Search elements by the naming conventions used in the column titles.

**Note:** The column naming conventions are discussed in more detail in *Indexing the Car File* on page 33

Scroll to the rightmost side of the report to see all column names, as shown in the following image.

WebFOCUS Rep	port			<u> </u>	] 👻 🖃 🖶 👻 Page 🕶 Safe	ty▼ Tools▼ 🕜▼
S_CATEGORY	S_DIRECTOR	S_RELDATE	S_MOVIECODE	TTTLE_URL	LINK_DISPLAY_NAME1	LINK_URL1
ACTION	SPIELBERG S.	78/05/13	001MCA	http://localhost:8080/ibi_apps/search? q=001MCA	Similar ACTION Movies	http://localhost:80 q=ACTION
CLASSIC	KAZAN E.	55/01/12	005WAR	http://localhost:8080/ibi_apps/search? q=005WAR	Similar CLASSIC Movies	http://localhost:80 q=CLASSIC
CLASSIC	WELLES O.	41/08/11	020TUR	http://localhost:8080/ibi_apps/search?	Similar CLASSIC Movies	http://localhost:80

- f. Close the browser window that is running the report.
- 3. Index the Movie File with Format Magnify.
  - a. Double-click the *Report* object in the Procedure View panel and change the output format.
    - Click the Format tab.
    - Select the *Output Format* drop-down.

Expand the *Unstyled formats* menu and select *Format Magnify (MAGNIFY)*, as shown in the following image.



□ Click Save and then click *Run* from the Quick Access Toolbar.

b. Confirm that there are no errors, such the one shown in the following image. Note that upon execution, the Reporting Server will process the request by transforming the report output into the Magnify Search feed protocol.



- c. Close the browser window that is running the report.
- d. Close the Procedure View panel.
- 4. Review the search-based application generated.
  - a. Open a web browser.
  - b. Confirm that the *collections.xml* file is set accordingly.
  - c. Navigate to the Magnify search page:

http://host:port/wfcontext\_root/search

where:

#### host:port

Is the machine name and port number where WebFOCUS is installed.

#### wfcontext\_root

Is the WebFOCUS application root.

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

To return to the out-of-the-box Magnify Search configuration, restore the original version of the *collections.xml* file. Restart the application server or use the *Refresh Collections* option in the Magnify Search administration console.

Go to:

http://localhost:8080/ibi\_apps/search

d. Perform a search test by typing *movies* in the Search box and clicking Search as shown in the following image.

WebFOCUS Magnify ••••	movies	Default Collection  Search
Search		Results1 - 10 of about 60 for movies. Search took 0.125 seconds.
Word Cloud CATEGORY		Tabular view         /         Sort by query score         Sort by date         Sort by relevance /         facetcounts on           SMURES.THE         SMURES, THE         SMURES, THE
ACTION (6) CHILDREN (8) CLASSIC (11) COMEDY (6) DRAMA (1) FOREIGN (6) MUSICALS (4) MYSTERY (9) SCI/FI (5) TRAIN/EX (5)		JAWS JAWS PG ACTION SPIELBERG S. 78/05/13 001MCA MOVIES Similar ACTION Movies More Like This VERTIGO VERTIGO PG MYSTERY HITCHCOCK A. 58/11/25 082MCA MOVIES Similar MYSTERY Movies More Like This HOW TO GOLF HOW TO GOLF FIR TRAINEX 88/04/22 147LOR MOVIES Similar TRAINEX Movies More Like This
G (6) • NR (21) PG13 (5) PG (11) R (17)		PSYCHO PSYCHO R MYSTERY HITCHCOCK A. 60/05/16 530MCA MOVIES Similar MYSTERY Movies More Like This BIRDS. THE BIRDS. THE BIRDS, THE PG13 MYSTERY HITCHCOCK A. 63/09/27 550MCA MOVIES Similar MYSTERY Movies More Like This
DIRECTOR ABRAHAMS J. (1) ALLEN W. (1)		CITIZEN KANE CITIZEN KANE NR CLASSIC WELLES O. 41/08/11 020TUR MOVIES Similar CLASSIC Movies More Like This

- e. Review the results returned and identify how the data from the procedure has been applied to the Magnify Search interface.
- f. Close the browser window.

## Indexing the Car File

This section illustrates Magnify indexing by feeding the Car file. In this example, multiple rows will be aggregated into a single row, in order to rollup data according to a single dimension to create a more robust, inclusive or higher-level search result. For example, this is the difference between showing a single search result for an entire order or showing a search result for each item purchased in an order.

- 1. Open the Car file to review all available data.
  - a. In App Studio, create a project pointing to the sample directory, *ibisamp*, if not already created.
- 2. Review the Car file (carmgn.fex)

**Note:** This file is installed with the WebFOCUS Reporting Server under the *ibisamp* application directory.

a. Right-click the *carmgn.fex* file and select *Open* from the context menu, as shown in the following image.



The Procedure View panel is opened for the *carmgn.fex* file, as shown in the following image.



b. Add a Set object before the Report object and set the *BYDISPLAY* parameter to *ON* to show repeated BY values, as shown in the following image.

	Set ×	Report					
ile carmgn.fex components							
0: Set	Used Settings				Current Value		
Engine MAGNIFY	BYDISPLAY				ON		
): Set				То Тор	OFF		
): Set				Up	ON		
Define				QU			
<sup>()</sup> Set				Down			
Report							
Dialogue Mngr				To Bottom			
🙀 DM If							
DM If	Available Settings						
🖞 DM If	ACCBLN ACCESSHTML	AUTOSTRATEGY BASEURL	DEFINES DROPBLNKLINE	GRAPHENGINE GRAPHSERVURL	KEEPDEFINE LANG	OVERFL PAGE-N	Browse
HtmlForm	ACCESSIBLE	BOTTOMMARGIN	DUPLICATECOL	GRMERGE	LAYOUTGRID	PAGESI	
🐱 DM Label	ACCESSPDF	BYDISPLAY	EMBEDHEADING	GRWIDTH	LAYOUTRTL	PANEL	Add
🐱 DM Label	ACROSSLINE ACROSSPRT	BYPANEL CARTESIAN	EMPTYREPORT ERROROUT	HDAY HIDENULLACRS	LEADZERO LEFTMARGIN	PASS PCOMM	
HtmlForm	ACROSSTITLE	CDN	EXPANDBYROW	HNODATA	LINES	POPUPC	Delete
DM Label	ALL	CENT-ZERO COMPMISS	EXTSORT	HOLDATTR	LOOKGRAPH MESSAGE	PRINT PRINTD:	
🕺 DM Label	AREAPIRE	COMPOUND	FILENAME	HOLDFORMAT	MULTIPATH	PRINTD	Check
HtmlForm	ARUNITCALC	COMPUTE	FIXRETRIEVE	HOLDMISS	NODATA	QUALCH	
M Label	ASNAMES	CSSURL CURRSYMB	FOC144 FOCEXURL	HOLDSTAT HTMLARCHIVE	OFFLINE-EMT	RIGHTM	
	AUTOFIT	DBACSENSITIV	FOCFIRSTPAGE	HTMLCSS	ONFIELD	SAVEMA	
	AUTOINDEX	DEFCENT	FOCSTACK	HTMLENCODE	ONLINE-FMT	SHADO\	
	AUTOPATH	DEFECHO	FOCTRANSFORM	JOINOPT	ORIENTATION	SHORTF	
	<					>	
	Set Help						
	Enables display of E	BY field values in every roo	w of an Excel report.				

- c. Double-click the Report object in the Procedure View panel to change the Output Format.
  - Click the Format tab.
  - Select the *Output Format* drop-down.
  - □ From the Output Format drop-down list, expand *Styled report formats* and select *HTML Active Report (AHTML)*, as shown in the following image.



**Note:** If you are not licensed for Active Technology, select *HTML Web Document* (*HTML*) instead. In that case, you will not be able to run the aggregation reports.

- Click Save and then click *Run* from the Quick Access Toolbar.
- d. Review the naming conventions and data, as shown in the following image.

anne T	CAL 1	Searchitik *	Kepáty D 🕈	CL_Country *	KCA, Body Type *	NA NGAI T	BA Normaly	KA_features 7	na ma hata a	S Country 7	sjan 1	8
NGLAND	IAOUAR	JAGUAR (ENGLAND)	ENGLANDJAGUAR	ENGLAND	CONVERTIBLE	VIDORE AUTO	12 MONTHS OR 12001 MILES	4 WHEEL DISC BRAKES	2 11020 - 2020	ENGLAND	IAGUAR	k
DUALEN	DAGUAR	JAGUAR (ENGLAND)	ENGLAND-INGUAR	ENGLAND	SEDAN	XXIII AUTO	-	POWER STEERING	1. Len then 10 MPG	ENGLAND	INCLAR	X
DOLAND	SAGEAR	JAGUAR (ENGLAND)	ENGLANDUNGUAR	ENGLAND		+		RECLINING BUCKET SEATS		ESGLAND	INCUAR	T
NGLAND	INGUAR	JAGUAR (ENGLAND)	EXCLANDUNCTIAR	ENGLAND		( )		WHETEWALL RADIAL PLY TIRES		ENGLAND	1a0UaR	ŀ
DIALBOR	INGUAR	INGUAR (ENGLAND)	ENGLAND-JAGUAR	ENGLAND		-	-	WRAP AROUND BUMPERS		ENGLAND	INSUAR	F
DIGLAND	JENSEN	JENSEN (ENGLAND)	EVELAND-ENSEX	ENGLAND	SEDAX	DATERCEPTOR III	12000 MILES OR 12 MONTHS	ALR. CONDITIONING	1.11MPG-3MPG	ENGLAND	ENSEN	P
DIALAND	ENEX	JENSEN (ENGLAND)	EXCLAND-ENSEX	ENGLAND				CERYSLER HIS CUIN VI ENGINE		ENGLAND	ENSEN	Γ
COLLON	TENSEN	JENSEN (ENGLAND)	ENGLAND-JENSEN	ENGLAND		-	-	LEAR FET AM FM I TRX STEREO		ENGLAND	IENSEN	Г
DELAND	JENSEN	JENSEN (ENGLAND)	ENGLANDAENSEN	ENGLAND				PRELLI GR 70 15 TRES		ENGLAND	IENSEN	Г
OKALEN	TRAINIPH	TRUMPE (ENGLAND)	ENGLAND-TRILMPH	ENGLAND	RARDTOP	182	12 MONTHS OR 12001 MILES	POWER FRONT DISC BRAKES	3. Greater thes 20MPG	ENGLAND	TRILAPH	D
COLLAND .	TRACARE	TREMPH (ENGLAND)	ENGLAND-TRILMPH	ENGLAND				RETRACTABLE HEADLIGHTS		ENGLAND	RUMPH	T
RUNCE	PEUGEOT	PEUGEOT (FRANCE)	FRANCE-PEUGEOT	FRANCE	SEDAN	504 4 DOOR	12 MONTHS ON 12000 MILES	ANTI SWAY BARS FRONT AND REAR	3. Greater then 20MPG	FRANCE	PEUGEOT	3
RUNCE	PEUGEOT	PEUGEOT (FRANCE)	FRANCE-PEUGEOT	FRANCE		-	-	FOUR WHEEL SUSPENSION	-	FRANCE	PEUGEOT	Г
24.902	PEUCEOT	PEUGEOT (TRANCE)	TRANCE-PEUGEOT	FRANCE		4		RACK AND PINION STEERING		TRANCE	PEUGEOT	T
TALY	ALFA ROMEO	ALFA ROMEO (ITALY)	ITALY-ALFA ROMEO	ITALY	SEDAN	2000 4 DOOR BERLINA			3. Creater then 201/PG	ITALY	ALFA ROMEO	3
TALY	ALF & ROMEO	ALFA ROMEO (ITALY)	ITALY-ALFA ROMEO	ITALY	COUPE	2000 GT VELOCE			3. Center then 205/PG	ITALY	ALFA ROMEO	3
TALY	ALFA ROMEO	ALFA ROMEO (ITALY)	ITALY ALFA ROMEO	ITALY	ROADSTER	2000 SPEDER VELOCE			3. Greater thes 201/20	ITALY	ALFA ROMEO	12
TALY	MASERATI	MASERATI (ITALY)	ITALY-MASERATI	ITALY	00078	DORA 2 DOOR	6 MONTHS OR 6000 MILES	S LITRE IS ENGINE	1.Lea the 10300	ITALY	MASERATI	þ
TALY	MASERATI	MASSERATI (ITALS)	ITALY-MASERATI	ITALY				ALL STEEL BODY		ITALY	MASERATI	T
TALY	MASERATI	MASERATI (ITALY)	ITALY-MASERATI	ITALY.		2		CAMPAGNOLLO LIGHT ALLOY WHEELS		ITALY	MASERATI	T
TALY	MASERATI	MASERATI (ITALY)	ITALY-MASERATI	ITALY		A		MICHELIN II 570 VRI SIVVX TIRES		ITALY	MASERATI	T
4245	DADRAN	DATSEN (JAPAN)	IAPAN DATSIN	1424N	SEDAN	8210 2 DOOR AUTO	12 MONTHS OR 12001 MELES	POWER FRONT DISC BRAXES	1.Les the 10320	IAPAN	DATSUN	1
APAN .	DAISUN	DATSEN (JAPAN)	IAPAN DATSIN	DAPAN				REAR DRUMBRAKES		INPAN	DATSUN	T
423N	TOTOTA	TOYOTA (JAPAN)	APAN-TOYOTA	DAPAN	SEDAN	COROLLA 4 DOOR DOL AUTO	12 MONTHS OR 12501 MILES	BODT SIDE MOLDENG	3. Greater thes 205/PG	142AN	TOYOTA	0
423N	TOTOTA	TOYOTA (JAPAN)	ARAN TOYOTA	DAPAN			-	MACPHERSON STRUT FROMT SUSPENSION		ISPAN	TOYOTA	T
CERMANY	AUTO	ATTN (W GERMANT)	W GERMANY-AUDI	W GERMANY	SEDAN	100152D008AUTO	12 MONTHS OR 2000 MILES	145 SR 14 RADIAL TIRES	3. Greater thes 305/29G	V GERMANY	41758	1

#### Review the Record Context.

**Note:** Notice how multiple rows in the Car data can be used to describe a single entity based on the rollup level. In this case, there are Countries and Cars. Depending on the use case, each entity can be created as its own search result. This is done by using the highest-level field as the primary BY field. Columns are named accordingly to identify where to aggregate values across multiple rows. For example, aggregating on the COUNTRY field will generate five search results, one for each country. Therefore, separate searches for *Jensen* and *Jaguar* will both return *England* as the search result.

At another level, the Car data has 18 individual models. However, if users are to search for any model, only a single car type search result would be returned.
For example, rolling up Model By Car reveals that there are 10 cars. Thus, 6 rows of data found for BMW will be aggregated into a single search result, as shown in the following image.

M4A_Model By CAR					
FF 🔟 🔇 🗹 🛛	: 🏼 🖾 🛍 🔒	Sort Ascending	▼ M6A_Warranty		
10 of 10 record	s, Page <u>1</u> of 1	Sort Descending	12 MONTHS OR		
M4A_Model By CAR		Filter	Image: A state of the state		
ALFA ROMEO	M4A_Model 3	Calculate Chart	• •		
AUDI	1	Rollup Pivot (Cross Tat	Group By (X)(COU)		
BMW	6	Hide Column	COUNTRY CAR		
DATSUN	1	Freeze Column	CAR SearchTitle		
JAGUAR 2		Unfreeze All Grid Tool	MagnifyID		
JENSEN	1	Chart/Rollup To:	C1_Country M3A_Body_Type		
MASERATI	1	Pivot Tool	M4A_Model		
PEUGEOT	1	Show Records Comments Send as E-mail	M6A_Warranty M5A_Features M7A_MPG_Rating		

□ Close the browser window that is running the report.

3. Index the Car file.

a. Double-click the Engine MAGNIFY object in the Procedure View panel.

BATCHSIZE     100       CONNECTION_ATTRIBUTES     MY_PC http://&WHAT_IS_MAGNIFY_URL.port/&WHAT_IS_ibi_apps/saxfeed'       DATASOURCE     cars       DELIMITER     #!#       FEEDTYPE     incremental	BASEURL       http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/WFServlet         BATCHSIZE       100         CONNECTION_ATTRIBUTES       MY_PC http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/saxfeed'         DATASOURCE       cars         DELIMITER       #!#         FEEDTYPE       incremental	Used Property	Property Name	Property Value	
BATCHSIZE     100       CONNECTION_ATTRIBUTES     MY_PC http://&WHAT_IS_MAGNIFY_URL:poit/&WHAT_IS_ibi_apps/saxfeed'       DATASOURCE     cars       DELIMITER     #!#       FEEDTYPE     incremental	BATCHSIZE       100         CONNECTION_ATTRIBUTES       MY_PC http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/saxfeed'         DATASOURCE       cars         DELIMITER       #!#         FEEDTYPE       incremental         MIME       text/plain		ACTION	add	
CONNECTION_ATTRIBUTES     MY_PC http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/saxfeed'       DATASOURCE     cars       DELIMITER     #!#       FEEDTYPE     incremental	CONNECTION_ATTRIBUTES     MY_PC http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/saxfeed'       DATASOURCE     cars       DELIMITER     #!#       FEEDTYPE     incremental       MIME     text/plain	✓	BASEURL	http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/WFServlet	
CONNECTION_ATTRIBUTES     MY_PC http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/saxfeed'       DATASOURCE     cars       DELIMITER     #!#       FEEDTYPE     incremental	CONNECTION_ATTRIBUTES     MY_PC http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/saxfeed'       DATASOURCE     cars       DELIMITER     #!#       FEEDTYPE     incremental       MIME     text/plain		BATCHSIZE	100	
DATASOURCE         cars           Delimiter         ##           FEEDTYPE         incremental	DATASOURCE     cars       DELIMITER     #!#       FEEDTYPE     incremental       MIME     text/plain	<b>I</b>	CONNECTION_ATTRIBUTES	MY_PC http://&WHAT_IS_MAGNIFY_URL:port/&WHAT_IS_ibi_apps/saxfeed	
DELIMITER         #!#           FEEDTYPE         incremental	DELIMITER     #!#       FEEDTYPE     incremental       MIME     text/plain	4	DATASOURCE	cars	
FEEDTYPE incremental	FEEDTYPE     incremental       MIME     text/plain		DELIMITER	#!#	
MIME text/plain			FEEDTYPE	incremental	•
	Search Properties Help		MIME	text/plain	•
Search Properties Help		Search Properti	ies Help		

The MAGNIFY search engine properties dialog opens, as shown in the following image.

Review the following properties:

- DELIMITER. Used internally to separate a list of values generated by the Format Magnify procedure in order to aggregate multiple rows into a single search result. This value should be a unique value not found anywhere in the content that is being indexed.
- **BATCHSIZE.** Incremental number of records to feed to Magnify at a time.

**Note:** Batchsize is critical when indexing large volumes of data. This setting will process all records but only send feeds to Magnify in the batch size specified, thereby sending data in increments.

The remaining Engine objects were covered in the Indexing the Movie File on page 24.

b. Double-click the Set object in the Procedure View panel.

				Current Value		
ASNAMES				MIXED		
			То Тор	FOCUS		
			Up	MIXED		
			qu	OFF		
			Down			
			To Bottom			
1999						
Available Settings						
ACCBLN ACCESSHTML	AUTOSTRATEGY	DEFINES	GRAPHENGINE	KEEPDEFINE	OVERFL	Browse
ACCESSHIML	BASEURL BOTTOMMARGIN	DROPBLNKLINE DUPLICATECOL	GRAPHSERVURL GRMERGE	LANG LAYOUTGRID	PAGE-NI PAGESI	
ACCESSIBLE	BYDISPLAY	EMBEDHEADING	GRWIDTH	LAYOUTRTL	PAGESI	Add
ACROSSLINE	BYPANEL	EMPTYREPORT	HDAY	LEADZERO	PASS	Add
ACROSSPRT	CARTESIAN	ERROROUT	HIDENULLACRS	LEFTMARGIN	PCOMM	
ACROSSTITLE	CDN	EXPANDBYROW	HNODATA	LINES	POPUPD	Delete
ALL	CENT-ZERO	EXTSORT	HOLDATTR	LOOKGRAPH	PRINT	
AREXPIRE	COMPMISS	FIELDNAME	HOLDFORMAT	MESSAGE	PRINTD:	
ARPASSWORD	COMPOUND	FILENAME	HOLDLIST	MULTIPATH	PRINTPL	Check
ARUNITCALC	COMPUTE	FIXRETRIEVE	HOLDMISS	NODATA	QUALCH	
ASNAMES	CSSURL	FOC144	HOLDSTAT	NULL	RIGHTM	
AUTODRILL	CURRSYMB	FOCEXURL	HTMLARCHIVE	OFFLINE-FMT	SAVEDM	
AUTOFIT	DBACSENSITIV	FOCFIRSTPAGE	HTMLCSS	ONFIELD	SAVEMA	
AUTOINDEX	DEFCENT	FOCSTACK	HTMLENCODE	ONLINE-FMT	SHADO\	
AUTOPATH	DEFECHO	FOCTRANSFORM	JOINOPT	ORIENTATION	SHORTF	
<					>	
Set Help						

The Set dialog opens, as shown in the following image.

Note: You must set the ASNAMES setting to MIXED in order to preserve case-sensitivity.

c. Double-click the Define object in the Procedure View panel.

cars'		^	Defined Fields Fields List	
I         LT         GT           II         LE         GE           IF         EQ         NE           THEN         AND         OR           ELSE         NOT         Functions	+ 7 - 4 * 1 / ** ()	> 8 5 6 2 3 0  U	Names	Description

The Define dialog opens, as shown in the following image.

- Review each Define field.
- Close the Define dialog.
- d. Double-click the Report object in the Procedure View panel.

**Note:** The following steps give you hands-on experience in recreating this procedure by starting fresh. This step can be skipped in order to follow along, similar to the hands-off approach in the *Indexing the Movie File* on page 24.

- e. In the Report canvas, delete all the fields by selecting all of them (or using *Ctrl+A*) and then pressing *Delete*.
- f. Build the Format Magnify Report.

□ In the Object Inspector, double-click on the field CAR and the field COUNTRY.

□ In the Report canvas, while holding Shift, select both the *COUNTRY* and *CAR* columns.



**O**n the toolbar, click Sort Down, as shown in the following image.

4S) 👼 🖫 🤹	i 📓 🖘 🕫	7 🖣 🗎	😂 + =					
Home	Report	Format	Data	Layout	View	Images	Field	Appearance
-	Sort Acros	s 🕥	44	1 1	The second secon			Fold Line 👻
Σ Aggregate	For Row	Filter	Sort	Rank	None •	No:	Split -	🔁 Skip Line 🔻
Sort Down	🗙 Delete	Ŧ	Order -	Ŧ	Limit	Line	Break -	🔡 Subtotal 🝷
Column	туре	Filter		Sor	t			Break

g. In the Report canvas, click to the right side of *CAR* to begin adding more columns to the report.

h. On the toolbar, click Detail, as shown in the following image.



□ In the Object Inspector, add the remaining columns. These are listed in the following table. After the column is added to the Report canvas, right-click on the column and select *Column Title*, as shown in the following image.

Options				
Delete				
Fixed Column Width				
Invisible				
Edit Variable Fields				
Column Title				
Format				
Visualize				
	Delete Fixed Column Width Invisible Edit Variable Fields Column Title Format			

Add Fields and Column Titles for the following:

Column	Column Title	Purpose
SEARCHTITLE	SearchTitle	Format Magnify Reserved Alias Name (case-sensitive)
SEARCHID	MagnifyID	Format Magnify Reserved Alias Name (case-sensitive)
COUNTRY	C1_Country	Category

Column	Column Title	Purpose		
BODYTYPE	M3A_Body_Type	Multiple Category		
MODEL	M4A_Model	Multiple Category		
WARRANTY	M6A_Warranty	Multiple Category		
STANDARD	M5A_Features	Multiple Category		
MPGRANGE	M7A_MPG_Rating	Multiple Category		
COUNTRY	S_Country	Searchable Content		
CAR	S_Car	Searchable Content		
MODEL	SA_Model	Aggregated Searchable Content		
BODYTYPE	SA_BODYTYPE	Aggregated Searchable Content		
WARRANTY	SA_WARRANTY	Aggregated Searchable Content		
STANDARD	SA_STANDARD	Aggregated Searchable Content		
SEARCHID	WF_INDEX_UNIQU E_KEY	Magnify Meta Tag		
TITLE_URL	<not needed=""></not>	Magnify Meta Tag		
LINK_URL1	<not needed=""></not>	Magnify Meta Tag		
LINK_DISPLAY_NAME1	<not needed=""></not>	Magnify Meta Tag		
S_HARDCODED	<not needed=""></not>	Searchable content (last because it is a TX field type)		

i. Click Save and then click Run from the Quick Access Toolbar.

**Note:** Each Car will include multiple rows as part of its single search result, thereby searching either *Jaguar V12XKE Auto* or *XJ12L Auto* will return the aggregated Jaguar search result, as shown in the following image.

OUNTRY 🔻	CAR 🔻	SearchTitle 🔻	MagnifyID 🛛 🔻	C1_Country ▼	M3A_Body_Type ¥	M4R_Model 🔻	M6A_Warranty 🔻 🔻	15A_Features
ENGLAND	JAGUAR	JAGUAR (ENGLAND)	ENGLAND-JAGUAR	ENGLAND	CONVERTIBLE	V12XKE AUTO	12 MONTHS OR 12000 MILES	4 WHEEL DISC BRAKES
ENGLAND	JAGUAR	JAGUAR (ENGLAND)	ENGLAND-JAGUAR	ENGLAND	SEDAN	XJ12L AUTO		POWER STEERING
ENGLAND	JAGUAR	JAGUAR (ENGLAND)	ENGLAND-JAGUAR	ENGLAND				RECLINING BUCKET SEATS
ENGLAND	JAGUAR	JAGUAR (ENGLAND)	ENGLAND-JAGUAR	ENGLAND				WHITEWALL RADIAL PLY TIRES
ENGLAND	JAGUAR	JAGUAR (ENGLAND)	ENGLAND-JAGUAR	ENGLAND				WRAP AROUND BUMPERS
ENGLAND	JENSEN	JENSEN (ENGLAND)	ENGLAND-JENSEN	ENGLAND	SEDAN	INTERCEPTOR III	12000 MILES OR 12 MONTHS	AIR CONDITIONING
ENGLAND	JENSEN	JENSEN (ENGLAND)	ENGLAND-JENSEN	ENGLAND				CHRYSLER 383 CU IN V8 ENGINE
ENGLAND	JENSEN	JENSEN (ENGLAND)	ENGLAND-JENSEN	ENGLAND				LEAR JET AM/FM 8 TRK STEREO
ENGLAND	JENSEN	JENSEN (ENGLAND)	ENGLAND-JENSEN	ENGLAND				PIRELLI GR70 15 TIRES
ENGLAND	TRIUMPH	TRIUMPH (ENGLAND)	ENGLAND-TRIUMPH	ENGLAND	HARDTOP	TR7	12 MONTHS OR 12000 MILES	POWER FRONT DISC BRAKES
ENGLAND	TRIUMPH	TRIUMPH (ENGLAND)	ENGLAND-TRIUMPH	ENGLAND	2			RETRACTABLE HEADLIGHTS
FRANCE	PEUGEOT	PEUGEOT (FRANCE)	FRANCE-PEUGEOT	FRANCE	SEDAN	504 4 DOOR	12 MONTHS ON 12000 MILES	ANTI SWAY BARS FRONT AND REAR
FRANCE	PEUGEOT	PEUGEOT (FRANCE)	FRANCE-PEUGEOT	FRANCE				FOUR WHEEL SUSPENSION
FRANCE	PEUGEOT	PEUGEOT (FRANCE)	FRANCE-PEUGEOT	FRANCE				RACK AND PINION STEERING
ITALY	ALFA ROMEO	ALFA ROMEO (ITALY)	ITALY-ALFA ROMEO	ITALY	SEDAN	2000 4 DOOR BERLINA		
ITALY	ALFA ROMEO	ALFA ROMEO (ITALY)	ITALY-ALFA ROMEO	ITALY	COUPE	2000 GT VELOCE		
ITALY	ALFA ROMEO	ALFA ROMEO (ITALY)	ITALY-ALFA ROMEO	ITALY	ROADSTER	2000 SPIDER VELOCE		
ITALY	MASERATI	MASERATI (ITALY)	ITALY-MASERATI	ITALY	COUPE	DORA 2 DOOR	6 MONTHS OR 6000 MILES	5 LITRE SS ENGINE
ITALY	MASERATI	MASERATI (ITALY)	ITALY-MASERATI	ITALY				ALL STEEL BODY
ITALY	MASERATI	MASERATI (ITALY)	ITALY-MASERATI	ITALY				CAMPAGNOLLO LIGHT ALLOY WHEELS
ITALY	MASERATI	MASERATI (ITALY)	ITALY-MASERATI	ITALY				MICHELIN 21 5/70 VR15XVWX TIRES
JAPAN	DATSUN	DATSUN (JAPAN)	JAPAN-DATSUN	JAPAN	SEDAN	B210 2 DOOR AUTO	12 MONTHS OR 12000 MILES	POWER FRONT DISC BRAKES
JAPAN	DATSUN	DATSUN (JAPAN)	JAPAN-DATSUN	JAPAN				REAR DRUM BRAKES
JAPAN	ΤΟΥΟΤΑ	TOYOTA (JAPAN)	JAPAN-TOYOTA	JAPAN	SEDAN	COROLLA 4 DOOR DIX AUTO	12 MONTHS OR 12500 MILES	BODY SIDE MOLDING
JAPAN	ΤΟΥΟΤΑ	TOYOTA (JAPAN)	JAPAN-TOYOTA	JAPAN				MACPHERSON STRUT FROMT SUSPENS
W GERMANY	AUDI	AUDI (W GERMANY)	W GERMANY-AUDI	W GERMANY	SEDAN	100 LS 2 DOOR AUTO	12 MONTHS OR 20000 MILES	165 SR 14 RADIAL TIRES
W GERMANY	AUDI	AUDI (W GERMANY)	W GERMANY-AUDI	W GERMANY				FRONT WHEEL DRIVE
W GERMANY	AUDI	AUDI (W GERMANY)	W GERMANY-AUDI	W GERMANY				POWER FRONT BRAKES
W GERMANY	BMW	BMW (W GERMANY)	W GERMANY-BMW	W GERMANY	SEDAN	2002 2 DOOR		
W GERMANY	BMW	BMW (W GERMANY)	W GERMANY-BMW	W GERMANY	SEDAN	2002 2 DOOR AUTO		
W GERMANY	BMW	BMW (W GERMANY)	W GERMANY-BMW	W GERMANY	SEDAN	3.0 SI 4 DOOR		
W GERMANY	BMW	BMW (W GERMANY)	W GERMANY-BMW	W GERMANY	SEDAN	3.0 SI 4 DOOR AUTO		
W GERMANY	BMM/	BMW AV GERMANY	W GERMANY-BMW	W GERMANY	SEDAN	530L4 DOOR		

- j. Close the browser window that is running the report and return to the Report canvas.
- k. Change the Output Format as follows:
  - Click the *Format* tab.
  - Select the *Output Format* drop-down.

Expand the Unstyled formats menu and select Format Magnify (MAGNIFY), as shown in the following image.



- Click Save and then click *Run* from the Quick Access Toolbar.
- Confirm that there are no errors. Upon execution, the WebFOCUS Reporting Server will process the request by transforming the report output into the Magnify feed protocol.

**Note:** Not every row is sent to Magnify. Fifty-one rows are aggregated into 34, as shown in the following image.

Your request did not return any output to display.

#### **Possible causes:**

- No data rows matched the specified selection criteria.
- Output was directed to a destination such as a file or printer.
- An error occurred during the parsing or running of the request.

O NUMBER OF RECORDS IN TABLE=

51 LINES=

34

As part of the Magnify output, the 34 records are further aggregated into 10 search results.

- □ Close the browser window that is running the report.
- □ Close the Procedure View panel.
- 4. Review the search-based application generated.
  - a. Open a web browser.
  - b. Navigate to the Magnify search page:

http://host:port/wfcontext\_root/search

where:

host:port

Is the machine name and port number where WebFOCUS is installed.

wfcontext\_root

Is the WebFOCUS application root.

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

To return to the Magnify interface, the default URL is:

http://localhost:8080/ibi\_apps/search

c. Perform a search test by typing *cars* in the Search box and clicking *Searchas* shown in the following image.



- d. Review the returned results and search to identify how the data has been applied to the Magnify search interface.
- e. Close the browser window.
- f. Close App Studio.

# Writing Magnify Feed Documents to Disk

Modifying ENGINE MAGNIFY SET commands for FORMAT MAGNIFY that instructs the WebFOCUS Reporting Server to write Magnify feed documents to disk rather than posting through HTTP are now supported.

#### Procedure: How to Write Magnify Feed Documents to Disk

You can follow the same instructions that currently exist for configuring FORMAT MAGNIFY with the following differences:

1. Add the following two lines:

APP MAP <variable\_name> "c:\ibi\WebFOCUS82\magnify\feedcache"

APP HOLD <variable\_name>

- 2. Set the ENGINE MAGNIFY SET CONNECTION\_ATTRIBUTES parameter to a blank value.
- 3. Ensure that the ON TABLE HOLD FORMAT MAGNIFY statement ends with:

AS <variable\_name>

Otherwise, the following error is generated:

(FOC44971) Explicit SET command has to be issued for CONNECTION\_ATTRIBUTES.



# **Organizing Magnify Search Collections**

Information can be organized into various contexts. This depends on how users understand the information that they search for. For example, an enterprise can organize information into Marketing Materials, Customer Accounts, Sales Leads, and Administrative Forms. Grouping Magnify Search index libraries to match the information architecture of the organization can help users pre-filter their searches.

This topic will demonstrate how to:

- 1. Map collections to index libraries.
- 2. Provide drop-down options for each collection.
- 3. Review the changes in real-time.

#### In this chapter:

- Mapping Index Libraries to Collection Indexes
- Adding Indexes to the Collections Drop-down Menu
- Viewing the Results in Real Time

#### Mapping Index Libraries to Collection Indexes

Magnify Search collections are organized and styled by files in the config\magnify folder.

#### *Procedure:* How to Map Index Libraries to Collection Indexes

- Navigate to the Magnify Search configuration folder. \ibi\WebFOCUS82\config\magnify
- 2. Open the collections.xml file in a text editor, such as Notepad.
- 3. Scroll to the end of the collections.xml file and locate the <indexes> section.
- 4. Create an index element in the collections file.
  - a. In the index element, provide a unique name for the designated index library. Typically this is the same name as the index library folder and data source name used earlier.
  - b. Use the folder of the index library created by the Format Magnify procedure as the *directory* value. This is the same as the value set in the DATASOURCE Engine Set statement.

This is the code:

```
<indexes>
<index name="cars" directory="cars"></index>
<index name="movies" directory="movies"></index>
</indexes>
```

5. Save and close the collections.xml file.

# Adding Indexes to the Collections Drop-down Menu

You can make Magnify index libraries available from the collections drop-down menu on the Magnify search page. This allows users to focus their search to a particular set of search content.

To add the collections to the Magnify search page drop-down menu, you must edit the following variables in the Magnify stylesheet (*<locale>\_*stylesheet.xslt):

collections\_description variable. Identifies the collection name that will appear in the dropdown list.

**collections\_values variable.** Identifies one or more index libraries.

#### Procedure: How to Add Indexes to the Collections Drop-down Menu

- Navigate to the Magnify configuration folder for your locale. The folder for English is en. \ibi\WebFOCUS82\config\magnify\locale
- 2. Open the locale\_stylesheet.xslt file (en\_stylesheet.xslt) in a text editor, such as Notepad.
- 3. Locate the collections\_descriptions variable.

<xsl:variable name="collections\_descriptions">

4. Enter names for your collection in the <xsl:otherwise> element. The syntax is:

<xsl:otherwise>Default Collection,My First Collection,My Second
Collection,</xsl:otherwise>

For example:

<xsl:otherwise>Default Collection, Cars, Movies, </xsl:otherwise>

**Note:** Collection names must be separated with a comma, and the element must end with a comma.

5. Locate the collections\_values variable.

<xsl:variable name="collections\_values">

6. Enter the folder where your indexes reside in the <xsl:otherwise> element. The syntax is: <xsl:otherwise>default\_collection,myfolder1,myfolder2,</xsl:otherwise>

For example:

<xsl:otherwise>default\_collection, cars, movies, </xsl:otherwise>

**Note:** Folder names are case-sensitive, must be separated with a comma, and the element must end with a comma.

7. Save and close the stylesheet file.

Note:

- ❑ The entries for the names and values in the collection variables must correspond to each other and appear in the same order. That is, description 1 must match value 1, description 2 must match value 2, and so on.
- □ Do not include spaces in the *collection\_values* variable. Magnify interprets the space to be part of the variable value and will not be able to locate the intended index. Spaces are allowed in the *collections\_descriptions* variable.

#### Viewing the Results in Real Time

After you have mapped collections to index libraries and added drop-down options for each collection, you will need to refresh the Magnify session with the application server, such as Apache Tomcat.

This can be accomplished by restarting the application server or using the *Refresh Collections* option in the Magnify administration console.

#### Procedure: How to View the Changes Made Using a URL Request

To view the changes, return to the sample default URL.

1. Navigate to the default Magnify search page using the following URL request:

http://host:port/wfcontext\_root/search

where:

#### host:port

Is the machine name and port number where WebFOCUS is installed.

#### wfcontext\_root

Is the WebFOCUS application root.

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

This is the full default URL:

http://localhost:8080/ibi\_apps/search

- 2. With the *Default Collection* selected in the collection drop-down menu, enter the Boolean search for *movies OR cars* in the search field.
- 3. Click the Search button.

All 70 records are returned in the results, as shown in the following image.

WebFOCUS Magnify ••••	cars or movies	Default Collection  Search Results Per Page : 10  Advanced Search Results1 - 10 of about 70 for cars or movies Search took 0.015 seconds.
Search		
		Tabular view / Sort by query score Sort by date Sort by relevance / facetcounts on
Word Cloud		SMURFS, THE SMURFS, THE NR CHILDREN 88/02/16 031KKV MOVIES
CATEGORY	1	Similar CHILDREN Movies More Like This
Country	E 🕚	JAWS JAWS PG ACTION SPIELBERG S. 78/05/13 001MCA MOVIES
RATING	E 🕚	Similar ACTION Movies More Like This
Body Type	E 🕚	VERTIGO
DIRECTOR	E 🜖	VERTIGO PG MYSTERY HITCHCOCK A, 58/11/25 082MCA MOVIES Similar MYSTERY Movies More Like This
Model	E 🕚	HOW TO GOLF
Features	E 🜖	HOW TO GOLF NR TRAIN/EX 88/04/22 147LOR MOVIES Similar TRAIN/EX Movies More Like This
Warranty	E 🕚	89/01/0
MPG Rating	1	PSYCHO. PSYCHO R MYSTERY HITCHCOCK A. 60/05/16 530MCA MOVIES Similar MYSTERY Movies More Like This

- 4. Select the Movies collection from the drop-down menu.
- 5. Click the Search button.

The 60 records for movies are returned in the results.

- 6. Select the *Cars* collection from the drop-down menu.
- 7. Click the Search button.

The 10 records for cars are returned in the results, as shown in the following image.

Magnify ••• • O	cars or movies	Cars
Search		Results1 - 10 of about 10 for cars or movies. Search took 0 seconds.
		Tabular view / Sort by query score Sort by date Sort by relevance / facetcounts on
Word Cloud		TRIUMPH (ENGLAND) ENGLAND TRIUMPH TR7 HARDTOP 12 MONTHS OR 12000 MILES POWER FRONT DISC BRAKES
Country	E 🌖	RETRACTABLE HEADLIGHTS cars Car Graph More Like This
Body Type	III 🕹	ALFA ROMEO (ITALY)
Model	i 🗐	ITALY ALFA ROMEO 2000 4 DOOR BERLINA 2000 GT VELOCE 2000 SPIDER VELOCE SEDAN COUPE ROADSTER Cars
Features	1	Car Graph More Like This
Warranty	1	DATSUN (JAPAN) JAPAN DATSUN 8210 2 DOOR AUTO SEDAN 12 MONTHS OR 12000 MILES POWER FRONT DISC
MPG Rating	1	BRAKES REAR DRUM BRAKES Cars Car Graph More Like This



# Verifying Magnify Search Indexes

You can monitor the indexing process and verify specific content in Magnify Search indexes using the Magnify Console.

#### In this chapter:

Post-Indexing Verification

# **Post-Indexing Verification**

This section will briefly describe some administrative features to validate the Magnify feed.

Note: For more information, see the Magnify Search Security and Administration manual.

- 1. Monitor the Indexing Process from the Magnify Console.
  - a. Launch WebFOCUS using the following URL and log on:

http://host:port/wfcontext\_root

where:

#### host:port

Is the machine name and port number where WebFOCUS is installed.

#### wfcontext\_root

Is the WebFOCUS application root. By default, this ibi\_apps.

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

- b. From the main menu, select Administration, and then Magnify Console.
- Under the *Diagnostics* section, click on *Index Monitor*.
- □ Notice how many records were indexed.

□ Copy the Directory Name under *Index Library Status*. This will be used to locate the physical Magnify Index library files, as shown in the following image.

# **Index Library Status**

The below information provides information about content feed to each Magnify index library. This information is refreshe

	Open Time	Close Time	Last Deleted Time	Minutes Open	Directory Name	Count of Records Loaded	Actual Documents in the index	Total Documents including deletes in the index
1	14:26:03	14:28:08		12.09	C:/ibi/WebFOCUS82 /magnify/lucene_index/movies	60	60	60
2	14:57:44	14:59:44		12 00	C:/ibi/WebFOCUS82 /magnify/lucene_index/cars	10	10	10
				4.09	Total	70	70	70

- 2. Close the Magnify Console and the browser window.
- 3. Verify the creation of the Magnify Index Library.
  - a. Navigate to Index Library folder.

Open Windows Explorer (or press the Windows logo key+E), and paste the Directory Name copied from step 1b in the browser bar. You can also type the directory path to the Magnify index libraries, for example \ibi\WebFOCUS82\magnify\lucene\_index, by default, as shown in the following image.



**Note:** The path that you use depends on your configuration. If you are using the WebFOCUS Client, the preceding path is acceptable. If you are using App Studio as a stand-alone, the path will be \ibi\AppStudio82\magnify\lucene\_index\.

4. Close Windows Explorer.



# **General Tips for Using Magnify Search**

This topic describes additional ways to work with Magnify Search.

#### In this chapter:

- Creating a Customized Magnify Configuration
- Basic Styling Options
- Configuring Word Lists
- Deleting Records From the Index
- File Indexing
- Other Considerations for Magnify Implementation

# Creating a Customized Magnify Configuration

This section describes how to save configuration changes to the Magnify interface separately from the default settings. The following procedures provide an example of creating a new customized Magnify configuration.

Simply put, the Magnify architecture flows as follows:

- When Magnify is called, the default collections.xml file is used. In this file, the default style sheet is assigned as an attribute for each supported language. By default, each language has its own designated folder which includes its own set of translated files.
- The language-specific style sheet is the first style sheet typically called from the Magnify collection file. This file describes collection pointers, text labels, the style sheet name, and references to include a more global style sheet (typically found in the root magnify configuration folder), which describes how to style the Magnify interface.
- □ The global style sheet is the principle file that controls the style and behavior of the Magnify interface. By default this is the included\_stylesheet.xslt file.

## Procedure: How to Create a Customized Style Sheet

This procedure creates a new language-specific style sheet file with its own unique name and a pair of collection values and descriptions. The default en\_stylesheet.xslt file will be used as a template. For a different example, see the en\_stylesheet\_century.xslt file.

- 1. Navigate to the \ibi\WebFOCUS82\config\magnify\en folder.
- 2. Copy the en\_stylesheet.xslt file.
- 3. Rename the copied file as en\_stylesheet\_myexample.xslt.
- 4. Open the en\_stylesheet\_myexample.xslt file in a text editor and set the root style sheet.
  - a. Find the variable for the root style sheet name.

```
<!-- Do not translated the variable rootstylesheet --> <xsl:variable name="rootstylesheet" >default</xsl:variable>
```

b. Change the default to a custom name, in this case, myexample.

```
<!-- Do not translated the variable rootstylesheet --> <xsl:variable name="rootstylesheet" >myexample</xsl:variable>
```

- c. Navigate to the collections\_descriptions and collections\_values variables.
- d. Add *Files* as the collection description and *myfileindex* as collection value, as shown in the following image. Both variables must end with commas. This will be used later in the File Indexing section. For more information, see *Adding Indexes to the Collections Drop-down Menu* on page 50.

```
<xsl:variable name="collections descriptions">
  <xsl:choose>
   <xsl:when test="/GSP/PARAM[@name='collections descriptions']/@value!=''">
     <xsl:value-of select="/GSP/PARAM[@name='collections descriptions']/@value"/>
    </xsl:when>
   <xsl:otherwise>Default Collection,Cars,Movies,Files,</xsl:otherwise>
 </xsl:choose>
</xsl:variable>
<xsl:variable name="collections values">
 <xsl:choose>
   <xsl:when test="GSP/PARAM[@name='collections values']/@value!=''">
      <xsl:value-of select="/GSP/PARAM[@name='collections values']/@value"/>
    </xsl:when>
   <xsl:otherwise>default collection, cars, movies, myfileindex, </xsl:otherwise>
  </xsl:choose>
</xsl:variable>
```

e. Save and close the en\_stylesheet\_myexample.xslt file.

#### Procedure: How to Create a Customized Collection Configuration

This procedure will create a new collection file pointing to the customized style sheet created in the previous procedure. The default collections.xml file will be used as a template. For a different example, see the collections\_century.xml file.

- 1. Navigate to the \ibi \WebFOCUS82 \config \magnify folder.
- 2. Copy the collections.xml file.
- 3. Rename the copied file as collections\_myexample.xml.
- Open the collections\_myexample.xml file in a text editor and set the default languagespecific style sheet.
  - a. Find the <defaults> section, as shown in the following image.

65 -	<pre>defaults analyzer="MagnifyAnalyzer"</pre>
66	collection="default_collection"
67	feed="default"
68	feed analyzer="MagnifyAnalyzer"
69	lang="en"
70	stylesheet_dir=""
71	stylesheet="en/en stylesheet"
72	id="defaults">
73	<language_defaults analyzer="Brazilian" feed_analyzer="Brazilian" id="default_pt_BR_search" lang="pt-BR" stylesheet="pt_BR/pt_BR_stylesheet"></language_defaults>
74	<language_defaults analyzer="Chinese2" feed_analyzer="Chinese2" id="default_zh_search" lang="zh" stylesheet="zh/zh_stylesheet"></language_defaults>
75	<language_defaults analyzer="Chinese2" feed_analyzer="Chinese2" id="default_zh_TW_search" lang="zh-TW" stylesheet="zh_TW/zh_TW_stylesheet"></language_defaults>
76	<language_defaults analyzer="MagnifyAnalyzer" feed_analyzer="MagnifyAnalyzer" id="default_en_search" lang="en" stylesheet="en/en_stylesheet"></language_defaults>
77	<language_defaults analyzer="MagnifyÄnalyzer" feed_analyzer="MagnifyÄnalyzer" id="default_en-us_search" lang="en-us" stylesheet="en/en_stylesheet"></language_defaults>
78	<language_defaults analyzer="MagnifyÄnalyzer" feed_analyzer="MagnifyÄnalyzer" id="default_es_search" lang="es" stylesheet="es/es_stylesheet"></language_defaults>
79	<language_defaults analyzer="French" feed_analyzer="French" id="default_fr_search" lang="fr" stylesheet="fr/fr_stylesheet"></language_defaults>
80	<language_defaults analyzer="French" feed_analyzer="French" id="default_fr_CA_search" lang="fr-CA" stylesheet="fr_CA/fr_CA_stylesheet"></language_defaults>
81	<language_defaults analyzer="German" feed_analyzer="German" id="default_de_search" lang="de" stylesheet="de/de_stylesheet"></language_defaults>
82	<language_defaults analyzer="Japanese" feed_analyzer="Japanese" id="default_ja_search" lang="ja" stylesheet="ja/ja_stylesheet"></language_defaults>
83	<language_defaults analyzer="Russian" feed_analyzer="Russian" id="default_ru_search" lang="ru" stylesheet="ru/ru_stylesheet"></language_defaults>
84	<pre></pre>

b. Set the stylesheet attribute to the style sheet created earlier.

stylesheet="en/en\_stylesheet\_myexample"

c. Set each language\_defaults stylesheet attribute to the style sheet created earlier (for English set both lang=en and lang=en-us).

```
<lpre><language_defaults lang="en"
... stylesheet="en/en_stylesheet_myexample" ... />
<language_defaults lang="en-us"
... stylesheet="en/en_stylesheet_myexample" ... />
```

- d. Save and close the collections\_myexample.xml file.
- 5. Refresh the Magnify session as described in *How to View the Changes Made Using a URL Request* on page 51.
  - □ Navigate to the search page.

http://localhost:8080/ibi\_apps/search

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

6. Confirm that the custom set of collections that you added in collections\_myexample.xml displays in the drop-down menu, as shown in the following image.



# **Basic Styling Options**

The Magnify interface can be customized to have a specific look and feel. The included style sheet is set up to be shared by more than one configuration. For this reason there are multiple If Then Else statements throughout the style sheet that use the value set to the root style sheet variable in order to make decisions on how to behave when a specific configuration is requested. For more information on setting the root style sheet variable, see *How to Create a Customized Style Sheet* on page 60.

**Note:** After viewing changes, you can refresh the Magnify session with a URL request or by restarting the application server.

For more information, see How to View the Changes Made Using a URL Request on page 51.

#### Procedure: How to Identify the Root Style Sheet Section

This procedure illustrates how to identify sections of the style sheet that control aspects of the interface based on the root style sheet in the included\_stylesheet.xslt file.

- 1. Navigate to and open the included\_stylesheet.xslt file in a text editor. By default, this file is located in \ibi\WebFOCUS82\config\magnify.
- 2. Search for rootstylesheet.

The first section found should be in the *fullsnippetcontent* variable:

<rsl:variable name="fullsnippetcontent" >

**Note:** When the fullsnippetcontent variable is set to true, an additional link will appear as *View Full Document*.

- 3. Add a section for the custom rootstylesheet created earlier (myexample).
  - a. Copy and paste the following element:

<xsl:when test="\$rootstylesheet = 'century'">true</xsl:when>

b. Replace *century* with the custom name.

<xsl:when test="\$rootstylesheet = 'myexample'">true</xsl:when>

4. Save and close the included\_stylesheet.xslt file.

For information on how to see the result of setting the fullsnippetcontent variable to true for the customized style sheet, see *How to View the Changes Made Using a URL Request* on page 51. The default URL is:

http://localhost:8080/ibi\_apps/search

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

The View Full Document link is added to the results, as shown in the following image.

Results1 - 10 of about 70 for movies or cars. Search took 0.078 seconds.

Tabular view / Sort by query score Sort by date Sort by relevance / facetcounts on TRIUMPH (ENGLAND) ENGLAND TRIUMPH TR7 HARDTOP 12 MONTHS OR 12000 MILES POWER FRONT DISC BRAKES RETRACTABLE HEADLIGHTS cars Car Graph More Like This View Full Document

#### Note:

- ❑ This method of copying the default line of code, replacing a value with new custom rootstylesheet name (for example, myexample), and then setting it accordingly will be done for each of the following procedures.
- **I** To see changes to the style sheet, you must restart the application server.

#### *Procedure:* How to Use a Customized Logo on the Magnify Interface

You can modify the logo that appears on the Magnify search page and create your own home page by editing the default included\_stylesheet.xslt file in the \ibi\WebFOCUS82\config \magnify folder. This procedure enables you to use a custom logo on Magnify search pages that use your customized root style sheet.

- 1. Navigate to and open the included\_stylesheet.xslt file in a text editor.
- 2. Search for the following:

<xsl:variable name="logo\_url" >

3. Copy and paste the following element:

```
<xsl:when test="$rootstylesheet = 'default'">
images/search/magnify/logo.png
</xsl:when>
```

4. Replace *default* with the custom style sheet name.

```
<xsl:when test="$rootstylesheet = 'myexample'">
images/search/magnify/logo.png
</xsl:when>
```

5. Replace the logo.png value with the name of your customized image.

```
<xsl:when test="$rootstylesheet = 'myexample'">
images/search/magnify/myexamplelogo.png</xsl:when>
```

Note: If you do not have a custom image, you can use the default logo.png.

For information on locating and changing the Magnify logo, see the *Magnify Search Security and Administration* manual.

- 6. Refresh the Magnify session as described in *How to View the Changes Made Using a URL Request* on page 51.
- 7. Confirm that your logo and custom set of collections appear on the Magnify interface, as shown in the following image.



#### *Procedure:* How to Modify the Magnify Home Page

This procedure enables you to customize the look of the Magnify home page.

- 1. Navigate to and open the included\_stylesheet.xslt file in a text editor.
- 2. Search for the following:

```
<xsl:call-template name="customhomepage"/>
```

3. Copy the following if statement.

4. Replace the *\$rootstylesheet* and *template name* values.

```
<xsl:if test="$rootstylesheet = 'myexample'">
    <xsl:if test="/GSP/Q = ''">
        <xsl:call-template name="myexamplecustomhomepage"/>
        </xsl:if>
</xsl:if>
```

5. Search for the following:

<xsl:template name="customhomepage">

6. Copy the entire template and rename it.

7. Change Century in the myexamplecustomhomepage template to My Example.

<p&gt;&lt;strong&gt;To Search Century Electronics

<p&gt;&lt;strong&gt;To Search My Example Electronics

- 8. Refresh the Magnify session as described in *How to View the Changes Made Using a URL Request* on page 51.
- 9. Confirm that your logo, custom set of collections, and updated home page (with Century replaced with My Example) appear on the Magnify interface, as shown in the following image.



# **Configuring Word Lists**

This section will illustrate how Magnify word lists can be customized. Specific areas of the interface can be configured to process searches differently. Synonyms can be added to expand search capabilities.

There is also a list of terms to ignore during a search, called a stop list. For example, if a search is submitted containing "The dog is green," and the stop list includes the words "the" and "is", only "dog" and "green" are searched for. This is useful in removing noise or extra words that may not be pertinent, to eliminate common words, and to increase search efficiency.

#### Procedure: How to Configure Synonyms

This procedure will illustrate the ability to expand search terms using synonyms. For example, by creating a synonym list for cars, searching automobile, cycle, or truck will return matches for cars as well.

- In your file system, navigate to *drive*:\ibi\WebFOCUS*nn*\config\magnify\en \en\_synonyms.txt, where *drive* is the drive your WebFOCUS software is saved on, and *nn* is the version number of your WebFOCUS software. Alternatively, if you are running your Magnify application in a language other than English, you can access *ln\_synonyms.txt* from the associated *ln* folder, where *ln* is a two-letter language code.
- 2. On a new line, type cars, automobile, cycle, truck, as shown in the following image.

```
File Edit Format View Help
pbells,pda,qwe,poi,pfa
mp3,m3p,mpthree,itunes,music
ipad=>palm,hand-helds,android
headphone,earbud,inear
tv,television,telly,monitor
assets,file,files,docs
emart,aaaa,bbb,cc
john manning,eli manning
cars,automobile,cycle,truck
```

- 3. Save the file.
- 4. Navigate to the search page and search for one of the added synonyms, such as truck.

The results will be identical to a search for *cars*, as shown in the following image.

WebFOCUS truck	Default Collection V Search Results Per Page : 10 V Advanced Search
Search	Results1 - 10 of about 10 for truck. Search took 0 seconds
	Tabular view / Sort by query score Sort by date Sort by relevance / facetcounts or
Word Cloud	TRIUMPH (ENGLAND) ENGLAND TRIUMPH TR7 HARDTOP 12 MONTHS OR 12000 MILES POWER FRONT DISC BRAKES RETRACTABLE HEADLIGH
Country 📃 🔿	Car Graph More Like This View Full Document
Body Type 🗮 🌖	ALFA ROMEO (ITALY) ITALY ALFA ROMEO 2000 4 DOOR BERLINA 2000 GT VELOCE 2000 SPIDER VELOCE SEDAN COUPE ROADSTER cars
Model 📃 🌖	Car Graph More Like This View Full Document
Features 📃 💁	DATSUN (JAPAN) JAPAN DATSUN 6210 2 DOOR AUTO SEDAN 12 MONTHS OR 12000 MILES POWER FRONT DISC BRAKES REAR DRUM BRAK
Warranty 📃 🧕	Car Graph More Like This View Full Document
MPG Rating 🧮 🖲	TOYOTA (JAPAN) JAPAN TOYOTA COROLLA 4 DOOR DIX AUTO SEDAN 12 MONTHS OR 12500 MILES BODY SIDE MOLDING MACPHERSON STF SUSPENSION Cars Car Graph More Like This View Full Document
	JENSEN (ENGLAND) ENGLAND JENSEN INTERCEPTOR III SEDAN 1 2000 MILES OR 12 MONTHS AIR CONDITIONING CHRYSLER 383 CU IN V8 EN AMIFM BYR STEREO PIRELLI OR70 15 TIRES <mark>cars</mark> Car Graph - More Like This View Full Document
	MASERATI (ITALY) ITALY MASERATI DORA 2 DOOR COUPE 6 MONTHS OR 6000 MILES 5 LITRE SS ENGINE ALL STEEL BODY CAMPAGNOLLO LI WHEELS MICHELIN 21 5/70 VR15XVWX TIRES Cars Car Graph More Like This View Full Document.

# **Configuring Word Cloud Stop Words**

Stop words are a predefined list of words or numbers that will not be shown in the Word Cloud when a search is performed. You can edit your list of stop words by accessing a file named en\_wordcloud.txt.



The following image shows an example of a Word Cloud when the search term *cars* is submitted.

To access the en\_wordcloud.txt file, navigate to *drive:/ibi/WebFOCUSnn/config/magnify/en/* en\_wordcloud.txt, where *drive* is the drive your WebFOCUS software is saved on, and *nn* is the version number of your WebFOCUS software. Alternatively, if you are running your Magnify application in a language other than English, you can access *ln*\_wordcloud.txt from the associated *ln* folder, where *ln* is a two-letter language code.

The following image shows the stop words 12, 2, 4, 12000, and miles added to the list of stop words saved in the en\_wordcloud.txt file. Each stop word is added on a separate line.

🗐 en_wordcloud - Notepad	_	×
File Edit Format View Help		
it		^
magnify		
magnifysecurityexit		
no		
not		
null		
of		
on		
or		
s		
such		
t		
that		
the		
their		
then		
there		
these		
they		
this		
to		
was		
will		
with		
12		
2 4		
4 12000		
miles		
IIITTE2		~

After saving the en\_wordcloud.txt file, navigating back to the search page, and searching for the term *cars* again, the Word Cloud does not display the words that were added to the list of stop words in the text file. The updated Word Cloud is shown in the following image.



# **Deleting Records From the Index**

As part of the Format Magnify indexing process, each search result is assigned a unique ID by the value assigned to the WF\_INDEX\_UNIQUE\_KEY Magnify Meta tag. If no record in the index exists for the value assigned to WF\_INDEX\_UNIQUE\_KEY, Magnify will add the record to the index library. Otherwise, Magnify will update the record, essentially overwriting the previous entry. The WF\_INDEX\_UNIQUE\_KEY value can also be used to locate a search result in order to remove it from the index library. A deletion action can be defined at the procedure or global level to apply to all records, or on a record-by-record level.

**Note:** If the Magnify action is not defined, it defaults to the add action. That is why this is typically not required.

The Magnify action can be set at two levels, the feed level and the record level. The recordlevel value, if present, will always override the global-level value set for the overall Format Magnify procedure.

# Procedure: How to Set Feed- and Record-Level Actions

This procedure will illustrate how to set the action for the entire feed, while at the same time overwriting the feed-level action by setting the record-level action for only a specific set of records. Once complete, those records with the value ENGLAND will be updated in the index library while all other records are removed.

- 1. Launch App Studio.
- 2. Edit the carmgn procedure in the Procedure Viewer.

For information of where to locate the carmgn procedure, see *Indexing the Car File* on page 33.

- 3. Add a new ENGINE object.
  - a. Enter MAGNIFY in the Engine field.
  - b. Set no connection as the Connection.
  - c. Enter ACTION=DELETE in the SET parameters field.
  - d. Click Test (no errors) and OK.
- 4. Create a new DEFINE named MagnifyAction (case-sensitive).
  - a. Use a format of A10.
  - b. Use the following expression.

IF CAR.ORIGIN.COUNTRY EQ 'ENGLAND' THEN 'add' ELSE ''

- c. Click Check (no errors) and then OK.
- 5. Open the Define object and change the value of LINK\_DISPLAY\_NAME1 to My Car Graph.
- 6. Add MagnifyAction to the Report Painter canvas as a PRINT field toward the end of the report, anywhere between SearchTitle and S\_HARDCODED.

**Note:** S\_HARDCODED must be the last PRINT field because it is a TX field.

- 7. Save and Run the procedure.
- 8. Verify that records have been removed from search.
  - a. Navigate to the search page.

#### http://localhost:8080/ibi\_apps/search

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

For more information, see *How to View the Changes Made Using a URL Request* on page 51.

b. Select *Cars* from the collection drop-down menu and search for *cars*.

Notice only the two records for England still exist and no other records are found, as shown in the following image.

WebFOCUS Magnify ••• • •	cars	Default Collection 💌 Search Results Per Page : 10 💌 Advanced Search		
Search		Results <b>1 - 2</b> of about <b>2</b> for <b>cars</b> . Search took <b>0</b> seconds.		
		Tabular view / Sort by query score Sort by date Sort by relevance / facetcounts on		
Country	<b>= 0</b>	JENSEN (ENGLAND) ENGLAND JENSEN INTERCEPTOR III SEDAN 12000 MILES OR 12 MONTHS AIR CONDITIONING CHRYSLER 38		
Body Type	E 🜖	LEAR JET AM/FM 8 TRK STEREO PIRELLI GR70 15 TIRES <mark>cars</mark> My Car Graph More Like This View Full Document		
Model	) <b>[</b> ] ()	JAGUAR (ENGLAND)		
Features		ENGLAND JAGUAR V12XKE AUTO XJ12L AUTO CONVERTIBLE SEDAN 12 MONTHS OR 12000 MILES 4 WHEEL ( STEERING RECLINING BUCKET SEATS WHITEWALL RADIAL PLY TIRES WRAP AROUND BUMPERS Cars My Car Graph More Like This View Full Document		

Note: It can take a minute or two to refresh.

c. Close the browser and App Studio.

## **File Indexing**

This section illustrates how to use the Fixed File adapter to monitor a file directory. This allows you to catalog and track changes in a given directory in order to index the content of files and make it searchable with Magnify.

For more information, see the Magnify Search Developer's Guide.

**Note:** Sample code for a WebFOCUS procedure that is required to complete *How to Setup File Indexing* on page 72 is available from the following link:

http://documentation.informationbuilders.com/masterindex/html/zip\_wf80/ myappmapexample.txt

#### Procedure: How to Setup File Indexing

This procedure will copy the Master File description template for the Fixed File adapter to point to a new file repository, index the content of those files, and monitor those directories for any changes.

- 1. Create a new application mapping named *myappmapexample*.
  - a. Log on to the Reporting Server console.
  - b. Select Applications.
  - c. Right-click *Application Directories* in the left pane, select *New*, and then *Application Directory*.

The Create New Application pane opens.

- d. Select Application Mapping to Disk from the Application Type drop-down menu.
- e. In the Application Name field, enter myappmapexample.
- f. Select a physical location. For this example, use \ibi\apps\ibisamp.

**Note:** It is important to note that for file indexing to work, this directory must also be a virtual path. For more information, see the *Magnify Search Security and Administration* manual.

g. Uncheck the Add directory to APPPATH check box, as shown in the following image.

Create New Applie		
Application Type	Application Mapping to Disk	
Application Name	myappmapexample	
Physical location	C: \ibi \apps \ibisamp	
Create or Map to existing:	Map to existing application	
Description		
Add directory to APPPA	п	
OK Cancel		

- h. Click OK.
- 2. In the Reporting Server console, create the *myfileindexing* synonym:
  - a. Select Applications if it is not already selected.
  - b. From the *ibisamp* directory, right-click the *filemntr.mas* file and select Open.
  - c. Click the console icon and select Save As, as shown in the following image.



- d. Use the Save in drop-down menu to navigate to the ibisamp folder.
- e. Save the file as myfileindexing
- f. Expand the Variables folder.
  - Double-click the &&*FL\_DIRECTORY* variable, enter *myappmapexample* in the *Default* field, and click *Apply*. This is the same value as the APP MAP name set in step 1e.
  - Double-click the &&*FL\_POLLING* variable, enter '1' in the *Values* field, and click *Apply*.
  - □ Double-click the &&*FL\_TIMEOUT* variable, enter '2' in the *Values* field, and click *Apply*.
- g. Save and close the Master File.
- 3. In the Reporting Server console, create the file indexing procedure:
  - a. Right-click the *ibisamp* folder and select New, then Procedure.
  - b. Paste the sample code that is provided in the following referenced file:

http://documentation.informationbuilders.com/masterindex/html/zip\_wf80/ myappmapexample.txt

#### Note:

- You may have to change the CONNECTION\_ATTRIBUTES and BASEURL accordingly.
- You may need to change the ROOT\_DOS\_PATH and ROOT\_WEB\_PATH DEFINE fields to accommodate the known base system and virtual path of the files being evaluated.
- □ This file will read a directory's file list and pass it to this procedure where the file system path is replaced by its URL path.
- Magnify will use the URL to access the file via HTTP protocol and index the content found.
- c. Save the procedure as myfileindexing.
- 4. Add a new index to the collections\_myexample.xml file. For more information, see *How to Add Indexes to the Collections Drop-down Menu* on page 50 and *How to Create a Customized Collection Configuration* on page 61.
- 5. Navigate to the search page and validate the changes and files indexed by searching for *File Repository*.

http://localhost:8080/ibi\_apps/search

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

A sample of the results are shown in the following image.

, WebFOCUS Magnify ••• • •	File Repository	Default Collection
Search		Results1 - 10 of about 156 for File Reposi
		Tabular view / Sort by query score Sort by date Si
Word Cloud		File: dmdemo (etg) DOS Path: C/liblapps/libisamp/dmdemo.etg
Source System		Dependency View) File Repository C:\ib\apps\ibisamp\dmdemo.etg File More Like This View Full Document date:02/06/2013
Parent Directory	iii 📀	
File Format	📃 🌖 📗	File: dmpivot (etg) DOS Path: C∆ibhaps\ibisamp\dmpivot.etg Dependency View] <b>File Repository</b> C∖ibhapps\ibisamp\dmpivot.etg <mark>File</mark>
File Size Ranges		More Like This View Full Document date:02/06/2013
		F <b>ile: dmseq (etg)</b> DOS Path: C:\ibi\apps\ibisamp\dmseq.etg Dependency View] <mark>File Repository</mark> C:\ibi\apps\ibisamp\dmseq.etg <mark>File</mark> Nore Like This View Full Document date:02/06/2013
		File: dmsurrg (etg) DOS Path: C:\ib\apps\\bisamp\dmsurrg.etg Dependency View] <mark>File Repository</mark> C:\ib\apps\\bisamp\dmsurrg.etg <mark>File</mark> More Like This View Full Document date:02/06/2013
		File: dmxord (xsd) DOS Path: C/ublapps/bbisamp/dmxord.xsd File Repository File More Like This View Full Document date:02/06/2013

## Other Considerations for Magnify Implementation

When beginning a Magnify implementation, you need to understand the full set of requirements. Most important is where does the information reside, how do users contextualize it, and how are they expected to understand the information through reporting?

- 1. Where does the data reside (one or more databases, file repositories, email server, and so on)?
- 2. What is the current quality of the data? Are there missing relationships, is cleansing required, and so on?
- 3. What is the physical size of the original data? How many tables, fields, and rows are involved? At what rate does it grow, and what is the expected size in the future? How many records are added, updated, or deleted at specific intervals?
- 4. Of the raw data, what is structured versus unstructured?
- 5. What types of informational concepts will be expected (people, places, things, etc)? How does the raw data correlate? Will the data be aggregated?

- 6. What mechanisms provide alerts that new information is available, has been updated, or is ready to expire (flag, date, and so on)?
- 7. At what frequency should search engine index feeds occur (real-time, scheduled, and so on)?
- 8. What hardware is available (64-bit, 16GB memory, and so on), is new hardware being purchased for this?
- 9. How many users are expected, total users and concurrent users?
- 10.What level of security is required?
- 11.What type of business intelligence reporting is expected when drilling down on a search result?

## Reference: Examples Provided with WebFOCUS

Procedures installed with the Reporting Server and App Studio: (\ibi\apps\ibisamp)

- carmgn.fex
- moviesmgn.fex

Century Electronics Magnify Search Example: (Installed with WebFOCUS 7.7.03 and higher)

Navigate to (adjusting for your own WebFOCUS configuration):

http://localhost:8080/ibi\_apps/search

**Note:** Sample or default URLs are for informational purposes only and may not resolve correctly, if at all.

You can search on terms in the help section. This can also be accessed from any mobile device.

If App Studio is not installed, you will need to unzip the ibimagn archive to the \ibi\apps directory. This is found in \ibi\WebFOCUS\utilities\demos. It includes all Format Magnify procedures used to create the example, which includes an example for indexing files.

**Recommendation:** Change the output of each procedure to HTML to see how the data is being transformed into search results and back to MAGNIFY to index the data

Note: To return to default search page, use the following URL:

http://localhost:8080/ibi\_apps/search

# Index

# A

analytics 14 application root 11

# В

breadcrumb trail 13 business intelligence reports 16

# С

categorization tree 13 Century Electronics 9, 11 Collection List drop-down menu 12, 50 collections 49, 61 collections\_description variable 50 collections\_values variable 50 configurations 59 customization 59 customized home page 64 customized logo 63

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# WebFOCUS

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