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11.1 Scope

This chapter will cover the specifics of enabling and enhancing the searching of Windows SharePoint Service v3 (WSS v3). Although WSS v3 can search much of what appears in WSS v3 it is possible to extend this to items such as Adobe PDF documents. The major restriction that searching has in WSS v3 is that it is limited to the WSS v3 site. However, with the installation of Microsoft Search Server Express 2008 it is possible to not only search WSS v3 content but also information from elsewhere including network file shares, Exchange public folder and even Internet web sites.

11.2 Prerequisites

WSS v3 search requires WSS v3 to be installed. See **Chapters 3 and 4** for more information about installing WSS v3.

11.3 Basics

Unlike its predecessor SharePoint v2, WSS v3 includes the ability to index and search its content automatically.

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Once WSS v3 has been installed you will see a search box in the top right of the window. Simply enter the desired search information and click the magnifying glass to the right to commence the search.

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When the search has completed you will a list of entries matching your search display like shown above. You can click on these results to display the entry. If you enter more than one word WSS v3 will match any item with either or both of the strings (a Boolean OR operation). WSS v3 search uses a feature called stemming. The basics of search stemming are¹:

- When you submit a query in SharePoint, the query is broken into individual words. For example, the query "securing the database" would be broken down into "securing", "the", and "database"
- Noise words can be eliminated, i.e. common words such as "and", "the", "or", that are unlikely to influence results. In this example, "the" would be dropped from the query. It also ignores single digit numbers.
- The query words can then be stemmed for variations. For example, a query for "security" could be expanded to include documents that refer to "securing", "securely" and so on
- The query words will also be compared against the thesaurus. The thesaurus is customizable and very useful for words with domain-specific alternatives or abbreviations. You can choose to expand queries (e.g. expand "PMB" to also search for "Purple Medium Board") or replace queries (e.g. replace "ie" with "Instant Everywhere" "ie" will return just about every document in an English-language index).
- Does not support Boolean functions such as AND and OR. You can however include key words by using the + (plus) or – (minus) sign in front of the keyword.

¹ <u>http://www.joiningdots.net/blog/2007/01/sharepoint-and-stemming.html</u>

The plus (+) tells the search that the word must be included in the results, and the minus (-) indicates that the term should not be included in the results.

• It is not case sensitive.

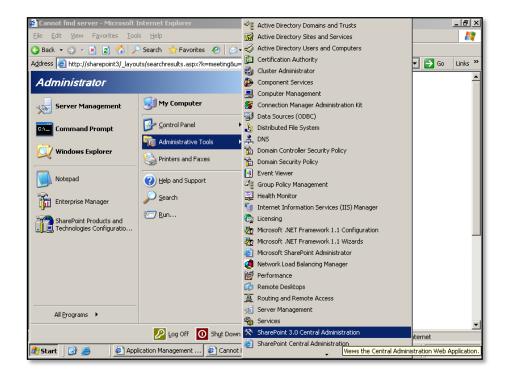
There are however a number of components of WSS v3 that are not searchable. These include:

- Non-text columns in lists i.e. lookup, current and Yes/No fields.
- Attachments to list items.
- Survey lists.
- Hidden lists.

By default WSS v3 will run an incremental indexing process every 5 minutes.

11.4 Ensuring the search is enabled

Depending on how you chose to install WSS v3 the search functionality may not yet be enabled.



Open the *SharePoint 3.0 Central Administration* via **Start | Administrative Tools | SharePoint 3.0 Central Administration**.

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Click on the Services on server link located under the Topology and Services heading.

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If search isn't running you will see a window like that shown above. Here you see the *Windows SharePoint Services Search* has a *Status* of *Stopped*. To enable it click on the *Start* link located in the *Action* column.

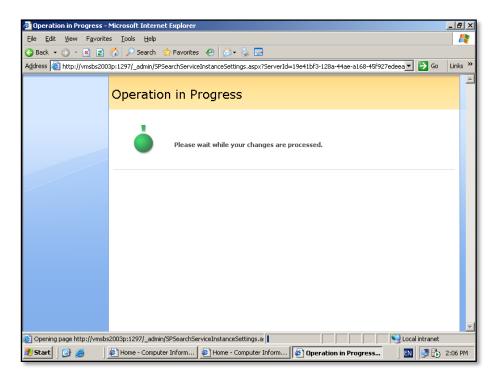
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🖸 Recycle Bin	The search service account must not be a built-in account in order to access the database. Examples of built-in accounts are Local Service and Network Service.	administrator Password						
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You will now be asked to enter a *Service Account* and a *Content Access Account*. Note that neither of these needs to be a domain administrator account but they must have

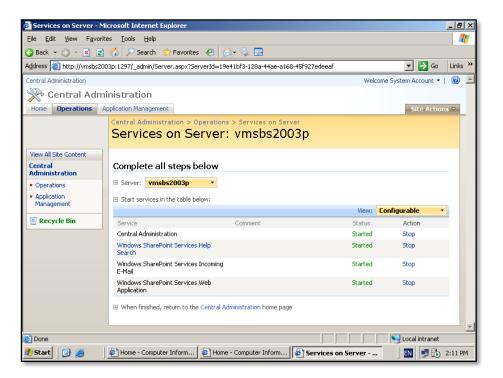
suitable rights to perform the requirements of the tasks listed. You may also need to use <domain>\<username>

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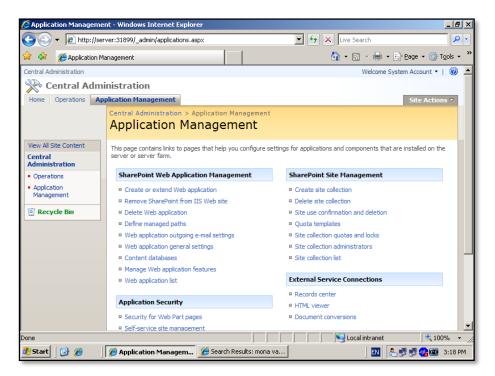
At the bottom of this screen you will find the options to configure the indexing schedule. Make any changes and press the **OK** button to continue.



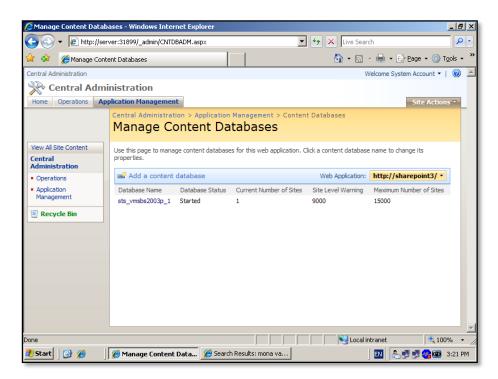
WSS v3 will now configure the search service based on the settings you previously selected.



You now see *Windows SharePoint Services Help Search* is *Started*. You can return to this screen at any time to make changes to the search operations of your WSS v3 site.



Select the *Application Management* tab. Then select **Content databases** from the *SharePoint Web Application Management* section.



Click on the content database (in this case *sts_vmsbs2003p_1*).

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	Database Capacity Settings Specify capacity settings for this database.	Number of sites before a warning event is generated 9000 Maximum number of sites that can be created in this database 15000	
	Search Server You can choose to associate a content database with a specific server that is running the Windows SharePoint Services search service.	Select Windows SharePoint Services search server server </th <th></th>	
	Remove Content Database Use this section to remove a content database from the server farm. When you select the Remove content database is no longer associated with this Web application. Caution: When you remove the content database, any sites listed in that content database are removed from the server farm, but the site data remains in the database.	C Remove content database	
		OK Cancel	
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Scroll down the screen until you locate the *Search Server* section. From the drop down menu select the name of your WSS v3 server.

Press **OK** to save the new configuration.

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If you now return to your WSS v3 site and enter in a search request you should see the results displayed. Remember that search results will not display until an index crawl has completed.

11.5 Indexing Acrobat PDF's

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The first step in the process is to download and install Adobe PDF IFilter 6.0 from :

	Setup	IFilter Plugin Setup is preparing the InstallShield(R) Wizard which will guide you through the rest of the setup process. Please wait. 99 %		
🕽 Start 🛛 🚱 🥭	/ 鋼 Setup		Recycle Bin	EN 10:50 AM

http://www.adobe.com/support/downloads/detail.jsp?ftpID=2611

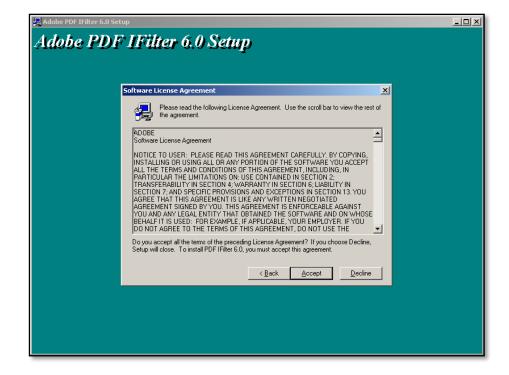
If there is already a version of Acrobat Reader on the server that is greater than 7.0.5 then the ifilter capability is already present. It is recommended that you upgrade any

version of Acrobat on the server to the latest version to ensure you have the latest facility for PDF document searches. If do not have Acrobat installed on your WSS v3 server then you will need to proceed with the installation of the ifilter file.

Double click on the downloaded file to commence the installation process.



Press **Next** to continue.



Press Accept to continue.



Press **OK** to complete the iFilter installation.

The next step in the process is to configure WSS v3 search to examine PDF documents. To do this you will need to run the registry editor. To do this run *Regedit* via **Start | Run | regedit.**

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				Image Type Deta dc dc dc dc dc dc d	
My Ci			Y_LOCAL_M	ACHINE\SOFTWARE\Microsoft\Shared Tools\Web Server Extensions\12.0\Search\Setup\ContentIndexCommon\File)) 10:54 AM

In RegEdit, check to see if *HKLM\SOFTWARE\Microsoft\Shared Tools\Web Server Extensions\12.0\Search\Setup\ContentIndexCommon\Filters\Extension\pdf* is present and has a GUID for a default value (in this case {4C904448-74A9-11D0-AF6E-00C04FD8DC02})

🚮 R	Registry Editor								
Eile	Edit	⊻iew	Favorites Help						
			🖻 💼 Web Server Extensions 📃	Name	Туре	Data			
I .			in 🔁 🔁 12.0	(Default)	REG_SZ	(value not set)			
I .			- 🛄 InstalledLanguages	Extension	REG_SZ	pdf			
I .			🕀 🚞 Repair	FileTypeBucket	REG DWORD	0x00000001 (1)			
I .			🛱 🧰 Search	MimeTypes	REG_SZ	application/pdf			
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	ompute	er\HKE\	LOCAL_MACHINE\SOFTWARE\Microsoft\Shared		sions\12.0\Search\Setup				
	tart	1	Ø Registry Editor			EN 🧾 10:56 AM			

Check to see if *HKLM\SOFTWARE\Microsoft\Shared Tools\Web Server Extensions\12.0\Search\Setup\Filters\.pdf* is present and has:

Default = (value not set) Extension = pdf FileTypeBucket REG_DWORD = 0x00000001 (1) MimeTypes = application/pdf

🕂 📄 Web Serve	Extensions	Name	Туре	Data	
		ab 19	REG_SZ	ascx	
	alledLanguages	ab 2	REG_SZ	txt	
🕀 🧰 Reg		20 a	REG_SZ	jsp	
📄 🧰 Sea		ab 21	REG_SZ	jhtml	
ė- e		ab 22	REG_SZ	url	
	64bd4e85-95a9-4ef1-b09d-d5093bc	ab 23	REG_SZ	vdx	
	🗄 🧰 CatalogNames	23 24	REG_5Z	vsd	
	🔁 🧰 Gather	a)25	REG_SZ	VSS	
	🖻 💼 Search	ab 26	REG_SZ	vst	
	ContentSources	20 27	REG SZ	VSX	
		<u>a</u> 28	REG_SZ	vtx	
	Extensions	ab 29	REG_SZ	docx	
	ExtensionList Mappings	a 3	REG SZ	asp	
		<u>₩</u> 30	REG_SZ	docm	
		ab) 31	REG_SZ	pptx	
		ab 32	REG_SZ	pptm	
	Gatherer Matrix Plugin	ماند ماند	REG_SZ	xlsx	
	🗄 🦲 Gathering Manager	لمان ف)34	REG_SZ	xlsm	
	ResourceManager	ab) 35	REG_SZ	msa	
• • • • • • • • • • • • • • • • • • •	Global	ab]36	REG SZ	php	
	Setup	ab]37	REG_SZ	mspx	
🕀 🧰 Sec	ure	ab]4	REG_SZ	xls	
	verLanguage	<u>س</u> 5	REG SZ	doc	
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	OFTWARE\Microsoft\Shared Tools\Web Server	r Extensions\12	0)Search) Applications) 64h	d4e85-95>9-4ef	

Open the key HKLM\SOFTWARE\Microsoft\Shared Tools\Web Server

Extensions\12.0\Search\Applications\<some

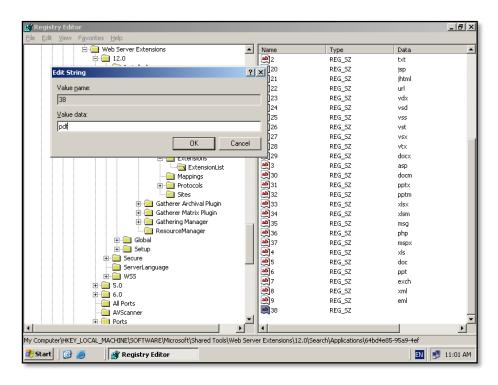
GUID>\Gather\Search\Extensions\ExtensionList. There should be values 0-37 (plus a default value).

<u>N</u> ew ▶	Key		Name	Туре	Data	
			ab 19	REG_SZ	ascx	
Permissions	String Value		ab 2	REG_SZ	txt	
Delete Del	Binary Value		20	REG SZ	jsp	
_ Rename	DWORD Value		21	REG SZ	jhtml	
	Multi-String Value		22	REG_SZ	url	
<u>C</u> opy Key Name	Expandable String Value	d-d5093bc	23	REG SZ	vdx	
Find Ctrl+F	E CatalogNames		24	REG_SZ	vsd	
Find Next F3	🖻 🧰 Gather		25	REG_SZ	VSS	
	🖻 🧰 Search		26	REG_SZ	vst	
	E ContentSour	ces	27	REG_SZ	VSX	
	Crawls		28	REG_SZ	vtx	
		olict	29	REG_SZ	docx	
	Mappings	illist.	a 3	REG SZ	asp	
	Protocols		30	REG SZ	docm	
	Sites		ab 31	REG_SZ	pptx	
	🗄 📄 Gatherer Archival Plu	Jain	ab 32	REG SZ	pptm	
	🗄 🛅 Gatherer Matrix Plugi		a 33	REG_SZ	xlsx	
	🗄 🛅 Gathering Manager	_	a 34	REG_SZ	×lsm	
	🔲 ResourceManager		ab 35	REG_SZ	msg	
	🛾 Global		ab 36	REG_SZ	php	
	Setup		37	REG_SZ	mspx	
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	erverLanguage		ab 5	REG SZ	doc	
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All Po			ab 9	REG SZ	eml	
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s a new string value.			,,			

With this same registry key selected, from the menu bar select **Edit** | **New** | **String Value**.

le <u>E</u> dit	⊻iew	Favorites Help					
		Web Server Extensions		Name	Туре	Data	
		☐ 12.0		ab]2	REG_SZ	txt	
		InstalledLanguages		ab]20	REG_SZ	jsp	
		⊕ <mark>-</mark> Repair ⊟ - Search		<u>a</u> 21	REG_SZ	jhtml	
				a)22	REG_SZ	url	
				ab]23	REG_SZ	vdx	
		English CatalogNames		ab]24	REG_SZ	vsd	
		⊡ - Gather		a 25	REG_SZ	VSS	
		B- Search		ab]26	REG_SZ	vst	
		E ContentSources		ab]27	REG_SZ	VSX	
				a 28	REG_SZ	vtx	
				a 29	REG_SZ	docx	
				ab 3	REG_SZ	asp	
		- Canada Antonia Anton		a	REG_SZ	docm	
		⊕- ☐ Protocols		ab 31	REG SZ	pptx	
		📑 Sites		ab 32	REG_SZ	pptm	
		🕀 🧰 Gatherer Archival Plugin		ab 33	REG SZ	xlsx	
		🕀 🧰 Gatherer Matrix Plugin		a]34	REG SZ	×lsm	
		🕀 🧰 Gathering Manager		ab]35	REG_SZ	msq	
		ResourceManager		ab]36	REG_SZ	php	
		😟 🧰 Global		ab 37	REG SZ	mspx	
		😟 🧰 Setup		ab]4	REG_SZ	xls	
		🕀 🧰 Secure		ab 5	REG_SZ	doc	
		ServerLanguage			REG SZ	ppt	
		🗄 🧰 WSS		ම් ම ම 8	REG_SZ	exch	
		🗄 🧰 5.0		ച്ച	REG_SZ	xml	
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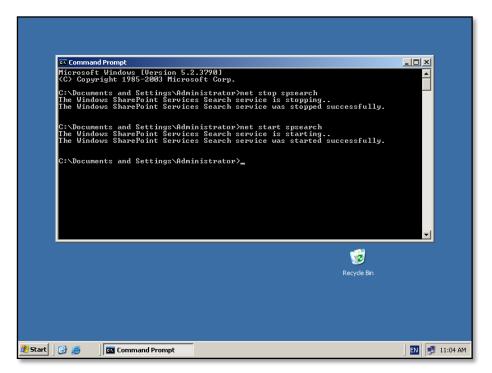
Enter the name as 38. Now double click on the new entry to edit the value.



Set this new string value to *pdf* and press **OK** to save.

Exit RegEdit.

Select Start | Run | CMD to display a DOS prompt.



At the DOS prompt type:

net stop spsearch

followed by

net start spsearch

to stop and start the WSS v3 Search Service. Close the DOS prompt.

If you perform a search in WSS v3 any existing PDF's in WSS v3 will not be returned, however newly added PDF's will be once they have been indexed by WSS v3. If you modify any existing PDF in WSS v3 it will be re-indexed. To index all existing PDF content in WSS v3 you will need to complete a manual re-index of WSS v3. See the section in this chapter called *Manual Full Crawl* for details.

To add the PDF icon to WSS v3 documents firstly download the image from:

http://www.adobe.com/images/pdficon_small.gif

After reading the guidelines about using the icon from Adobe found here:

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	ACG16.GIF	1 KB GIF Image	30/C
	ACL16.GIF	1 KB GIF Image	30/C
	ACS16.GIF	1 KB GIF Image	30/C
	ACTIONHD.GIF	1 KB GIF Image	7/04
	💽 actionlhd.gif	1 KB GIF Image	7/04
	🔊 actionrhd.gif	1 KB GIF Image	7/04
	actionscreate.gif	2 KB GIF Image	1/06
Resources	actionseditpage.gif	1 KB GIF Image	20/C
	actionssettings.gif	2 KB GIF Image	1/06
E C 1033	ACW16.GIF	1 KB GIF Image	30/C
ADMIN	ADDCOL.GIF	1 KB GIF Image	16/1
	addressbook.gif	2 KB GIF Image	16/C
	ADE16.GIF	1 KB GIF Image	30/C
EATURES	- admintitlegraphic.gif	1 KB GIF Image	15/1
	ADN16.GIF	1 KB GIF Image	30/C
	ADP16.GIF	1 KB GIF Image	30/C
	AIF16.GIF	1 KB GIF Image	30/C
	AIFC16.GIF	1 KB GIF Image	30/C
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	allcontents.png	4 KB PNG Image	27/C
	🛐 alldaydefault.gif	1 KB GIF Image	20/C
	alldaydefaultover.gif	1 KB GIF Image	20/C
	alldayevent.gif	1 KB GIF Image	24/C
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http://www.adobe.com/misc/linking.html#producticons

Copy the GIF file into this directory *c*:*program files**common files**Microsoft shared**web server extensions*\12*template**images*.

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Locate the file *c*:*program files**common files**Microsoft shared**web server extensions*\12*template**xml**docicon.xml*. **Right mouse click** on the file to edit.

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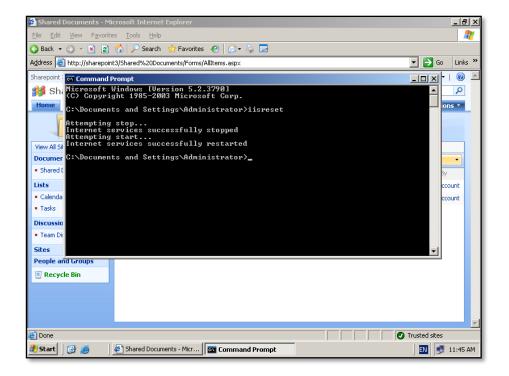
Locate the <ByExtension> element where you will see entries for each icon starting with <Mapping key=. Enter the following on a new line:

<Mapping key="pdf" Value="pdficon_small.gif" OpenControl=""/>

Note, that the extension names do not have to be in alphabetical order so it is best to place the entry at the end of the existing list. Also ensure that the correct filename for the icon is used in the entry line.

When complete, save the file and exit notepad.

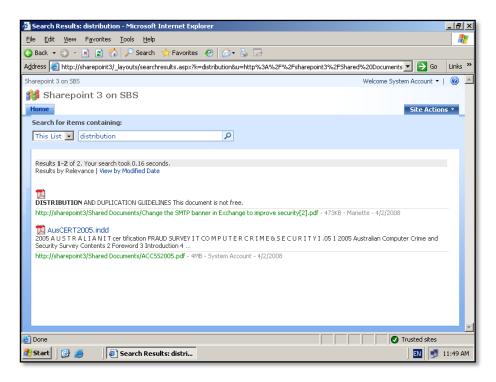
To see the icon immediately in WSS v3 start a command prompt on the server via **Start** | **Run** | **Cmd**.



At the prompt enter **iisreset** to restart Internet Information server. When the process is complete, exit the DOS prompt and examine any WSS v3 libraries that contain PDF documents.

🎒 Shared Documents -	Microsoft Internet Explorer		<u>_8×</u>
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 Calendar 	Change the SMTP banner in Exchange to improve security[2] ! NEW	4/2/2008 11:25 AM	System Account
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You should now see the PDF icon denoting the file type as PDF in WSS v3 as shown above. Please note that you are only able to open PDF documents if you have Acrobat Reader installed on the workstation.



You should now see that when you do a search your PDF document contents will be indexed as shown above.

11.6 Indexing Office 2007 documents

If Office 2007 documents are failing to be indexed you may need to install the Office 2007 system iFilter pack.

Firstly download the Office System 2007 filter pack from:

http://www.microsoft.com/downloads/details.aspx?FamilyId=60C92A37-719C-4077-B5C6-CAC34F4227CC&displaylang=en



Press Next to continue.

	Microsoft Filter Pack 1.0
	End-User License Agreement
	To continue with Microsoft Filter Pack 1.0 installation, you must accept the terms of the End-User License Agreement. To accept the agreement, click the check box below.
	MICROSOFT SOFTWARE LICENSE TERMS
	These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft • updates, • supplements, • Intermet-based services, and • support convicos
	☑ I accept the terms in the License Agreement
	Cancel Next>
🏄 Start 🛛 🚱 🍎	副 🗾 11:59 AM

Click to accept license agreement and then press the Next button.

	🚏 Microsoft Filter Pack 1.0	
	Microsoft Filter Pack 1.0	
	Installation Progress:	
	Current Action:	
	Ca	ncel
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	rə Microsoft Filter Pack 1.0 Microsoft Filter Pack 1.0 Setup has completed successfully.	×	
	OK		
		Recycle Bin	
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Once this is installed according to the Microsoft deployment guide for Windows SharePoint Services found at:

http://support.microsoft.com/?id=946338

you need to complete the following steps:

You must verify and install some registry keys. To do this, follow these steps:

- 1. Click **Start**, click **Run**, type **regedit**, and then click **OK**.
- Locate and then click the following registry sub-key: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Shared Tools\Web Server Extensions\12.0\Search\Applications\GUID\Gather\Search\Extensions\Extension List
- 3. In the details pane, verify that a key entry exists for the file name extension that you want to be indexed.

The following list contains the file name extensions that are supported by Microsoft Filter Pack:

- .Docx
- .Docm
- .Pptx
- .Pptm
- .Xlsx
- .Xlsm
- .Xlsb
- .Zip
- .One
- .Vdx
- .Vsd
- .Vss
- .Vst
- .Vdx
- .Vsx
- .Vtx

If any of these extensions do not exist, follow these steps:

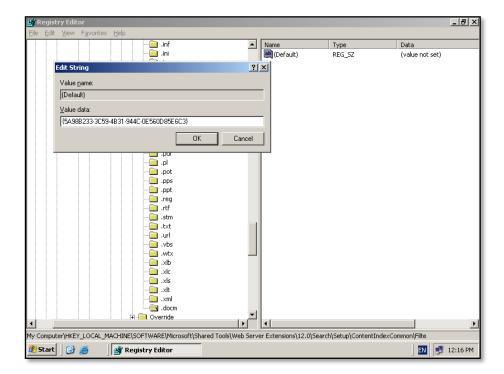
- a. On the Edit menu, point to New, and then click String Value.
- b. Type the next highest supported number, and then press ENTER.
- For example, if the previous highest supported number is 37, you can type **38**.
- c. Right-click the registry entry that you created, and then click **Modify**.
- d. In the Value data box, type the file format that you want, and then click OK.
- e. Repeat these steps for any additional file name extensions that are missing.

🕵 Registry Editor								
Eile	Edit	⊻iew	Favorites	Help				
				🖻 🧰 Filters		Name	Туре	Data
				🗈 🚊 CLSID		(Default)	REG_SZ	(value not set)
				Default				
				asp				
				.cmd				
				doc				
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				🧰 .htm				
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# 5	itart	6	3	💣 Registry Editor				EN 🧾 12:10 PM
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- 4. In Registry Editor, locate the following registry sub key: *HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Shared Tools\Web Server Extensions\12.0\Search\Setup\ContentIndexCommon\Filters\Extension*
- 5. On the **Edit** menu, point to **New**, and then click **Key**.
- 6. Type **.docm**, and then press ENTER.

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My Co	ompute	er\HKE\	LOCAL_M	ACHINE\SOF	TWARE\Micro	soft\Share	ed Tools\Web	Serve	er Extensi	ions\12.0\Sear	ch\Setup\Cor	ntentIndexCon	mon\Filte	
<u>æ</u> 5	tart		[چ	💣 Regist	ry Editor								EN	🦻 12:15 PM

7. Right-click the registry entry that you created, and then click **Modify.**



- In the Value data box, copy and paste the following information: {5A98B233-3C59-4B31-944C-0E560D85E6C3}
- 9. Click **OK**.

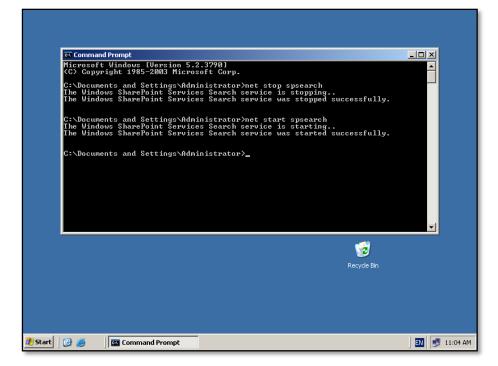
10. Repeat steps 5 through 8 to add the following subkeys:

Кеу	Value data
.Docx	{5A98B233-3C59-4B31-944C-0E560D85E6C3}
.Pptm	{DDFE337F-4987-4EC8-BDE3-133FA63D5D85}
.Pptx	{DDFE337F-4987-4EC8-BDE3-133FA63D5D85}
.Xlsm	{F90DFE0C-CBDF-41FF-8598-EDD8F222A2C8}
.Xlsx	{F90DFE0C-CBDF-41FF-8598-EDD8F222A2C8}
.Xlsb	{312AB530-ECC9-496E-AE0E-C9E6C5392499}
.Zip	{20E823C2-62F3-4638-96BD-90F4F6784EBC}
.One	{B8D12492-CE0F-40AD-83EA-099A03D493F1}
.Vsd	{FAEA5B46-761B-400E-B53E-E805A97A543E}
.Vss	{FAEA5B46-761B-400E-B53E-E805A97A543E}
.Vst	{FAEA5B46-761B-400E-B53E-E805A97A543E}
.Vdx	{FAEA5B46-761B-400E-B53E-E805A97A543E}
.Vsx	{FAEA5B46-761B-400E-B53E-E805A97A543E}
.Vtx	{FAEA5B46-761B-400E-B53E-E805A97A543E}

Important If you restart the computer before you follow these steps, the registry changes will not persist.

Exit RegEdit.

Select **Start | Run | CMD** to display a DOS prompt.



At the DOS prompt type:

net stop spsearch

followed by

net start spsearch

to stop and start the WSS v3 Search Service. Close the DOS prompt.

11.7 Manual Full Crawl

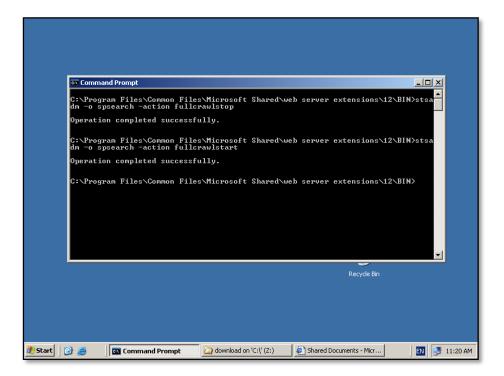
To launch a full manual search crawl of the entire WSS v3 content complete the following steps:

- 1. Run a command prompt via Start | Run | Cmd
- 2. At Dos prompt type:
- **C**:

Then press the ENTER key. Then type:

cd\Program Files\Common Files\Microsoft Shared\web server extensions\12\BIN

and again press the ENTER key.



Now type:

stsadm -o spsearch -action fullcrawlstop

and press the ENTER key

now type:

stsadm -o spsearch -action fullcrawlstart

and press the ENTER key

The complete re-index of all the content may take a while to complete. You will also notice an additional load on your server during the process.

11.8 Microsoft Search Sever Express 2008

The ability to search WSS v3 content is provided by default, however it is limited to only the content contained within WSS v3 sites. With the installation of Windows Search Server Express 2008 it is possible to not only search WSS v3 content but also network file shares, web sites and Exchange Public folders.

One down side with Search Server Express 2008 is that it doesn't integrate into the existing search functionality in WSS v3. This means that if you use WSS v3 search you

will only be able to search WSS v3 content, however if you use Search Server Express 2008 you will be able to search WSS v3 content and network files shares, web sites and Exchange Public Folders but it will be via the Search Server Express 2008 web site not the WSS v3 web site.

Microsoft Search Server 2008 Express is a freely available from Microsoft and can be downloaded from:

http://www.microsoft.com/downloads/en/details.aspx?FamilyID=ce0a29fe-e906-4767b841-b41d7a31949f

The specifications for Search Server Express 2008 are as follows:

- Processor: 2.5 gigahertz (GHz) (minimum)
- Memory: 2 gigabytes (GB) RAM (minimum)
- Operating System: Any of the following editions of the Windows Server 2003 or newer operating system with the most recent service packs (minimum Service Pack 1): Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition.
- Hard disk: NTFS-formatted partition with 3 GB of free space (minimum)
- Microsoft .NET Framework 3.0 with ASP.NET 2.0 enabled
- Windows SharePoint Services 3.0
- Microsoft Windows Workflow Foundation Runtime Components

In theory it is possible to install Search Server Express 2008 onto Windows Small Business Server 2003 (SBS) but considering all the other applications that need to reside on an SBS server (including WSS v3) there is little doubt that performance of Search Server Express 2008 and SBS will be impacted if they co-exist.

The general recommendation then is to install Search Server Express 2008 and WSS v3 on a dedicated member server in a network. For more information about installing WSS v3 see Chapter 3 – Installing on Windows Server 2003 and Chapter 4 – Installing on Windows Small Business Server.

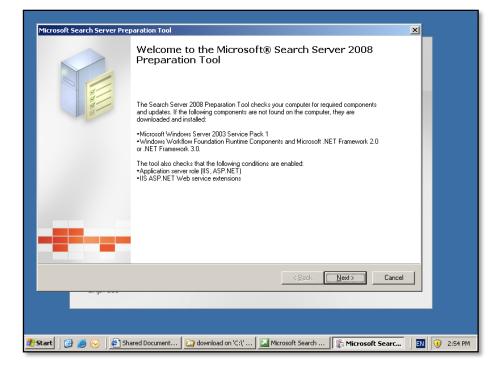
Once WSS v3 is operational on the server you then need to ensure that Windows SharePoint Services v3 Service Pack 1 is installed. With this complete you can now commence the installation of Search Server Express 2008.

Microsoft Search Server 2008 Express	×
Cancel	
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Log onto the WSS v3 server as an administrator and double click on the file to commence the installation. The required files will firstly be extracted to the server.

Start Start	
Prepare Review hardware and software requirements Read the installation guide Install Run the Search Server Preparation Tool Install Search Server Other Information Visit Windows Update Visit the product website Exit	
Review hardware and software requirements Read the installation guide Install Run the Search Server Preparation Tool Install Search Server Other Information Visit Windows Update Visit the product website Exit	Start
Run the Search Server Preparation Tool Install Search Server Other Information Visit Windows Update Visit the product website Search Server 2008	<u>R</u> eview hardware and software requirements
Visit Windows Update Visit the product website Search Server 2008	Run the Search Server Preparation Tool
Search Server 2008	Visit Windows <u>U</u> pdate
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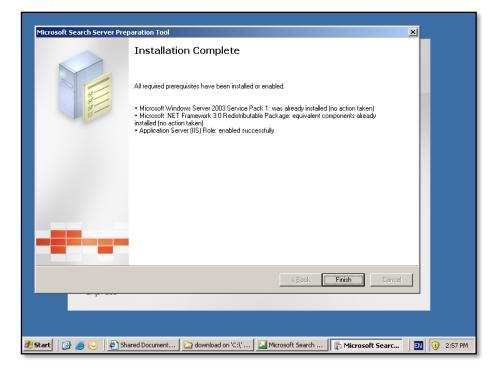
You should now see a *Start* screen displayed. From here select the option **Run the Search Server Preparation Tool**.



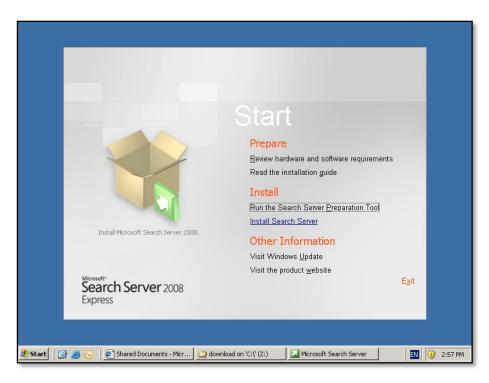
You should now see the welcome screen. Press **Next** to continue.

Microsoft Search Server Preparation Tool Now Installing Prerequisites		1
Configuring Application Server (IIS) Role		
Started 2:54:30 PM, running for 0:00:01		
	<u> </u>	Cancel

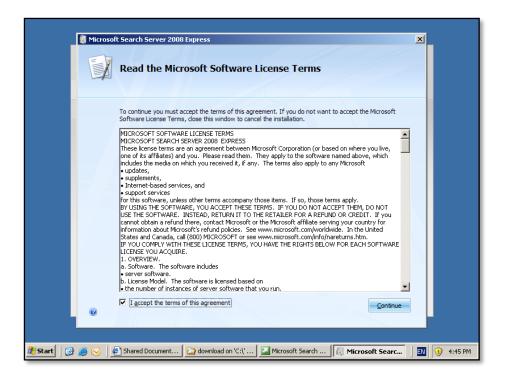
The server will now be checked to ensure that it meets all the minimum requirements and is configured correctly.



When the process is complete you may need to take further action as recommended by the tool. Press **Finish** to complete the process.



You will now be returned to the *Start* window. From here now select the option **Install Search Server**.



Check the option *I accept the terms of this agreement* and press **Continue**.



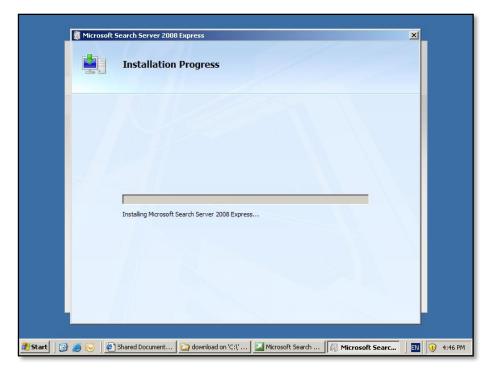
Unless Search Server Express 2008 detects a compatible version of SQL server already installed, the only option that will be available on the *Server Type* tab will be *Stand-alone*. Note in that case Search Server Express 2008 will automatically also install SQL 2005 Express onto the server in the system partition. For more information about this version of SQL see **Chapter 8 – Database Operations**.

If Search Server Express 2008 does detect a compatible SQL version it will automatically use that. In that case you will have the option to do a *Complete* or *Web Front end*. In that case it is recommended that you select the *Complete* option.

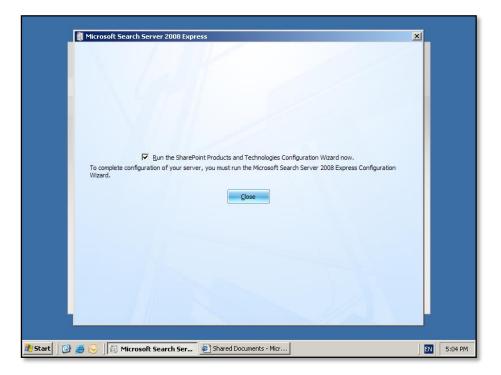
		_
👸 Microsoft	: Search Server 2008 Express 🛛 🔀	<u> </u>
Server <u>T</u>	Type Ele Location Feedback	
	Choose a file location Microsoft Search Server 2008 Express will be installed on your computer. To install this product in a different location, click Browse, and then select the location.	
	d:\Program Files\Microsoft Office Servers Browse	
	If you intend to use this computer as a search server, the search index files will be stored on the local hard drive. These files can be very large, so ensure that there is sufficient free space on the selected drive. To change where Microsoft Search Server 2008 Express will store its search index files, click Browse, and then select the location.	
	d:\Program Files\Microsoft Office Servers\12.0\Data Browse	
0		
	Install Now	
🦺 Start 🛛 🚱 🎯 🕞 🛛 🖉	🖞 Shared Document) 🎦 download on 'C:\') 🗾 Microsoft Search 🦷 🧖 Microsoft Searc 👔	N 😯 4:45 PM

If you select the *File Location* tab you can nominate into which directory the application files and index files will be stored. It is good practice to store these on a non system partition.

When your configuration is complete press the **Install Now** button to continue.



The installation process will commence and no further input will be required.



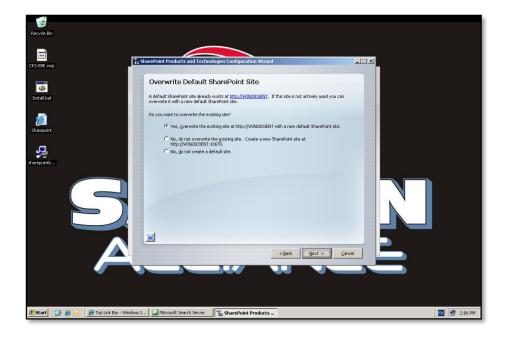
When the installation process is complete you will be given the option by default to **Run the SharePoint Products and Technologies Configuration Wizard now**. To do so simply leave the option checked and press the **Close** button.



You will then be prompted that the following services will be started or reset during the configuration:

- Internet Information Services
- SharePoint Administration Service
- SharePoint Timer Service

This may affect other users on the network and if so you should prepare them for interruption to their normal programs. Click the **Yes** button to accept this warning and continue. Then press the **Next** button to proceed.



Depending on your WSS v3 installation, Search Server Express 2008 may detect that a web site (usually WSS v3) already exists at the default location. In this case it is recommended that you select the second option which is :

No, do not overwrite the existing site. Create a new SharePoint site at http://<server_name>:port

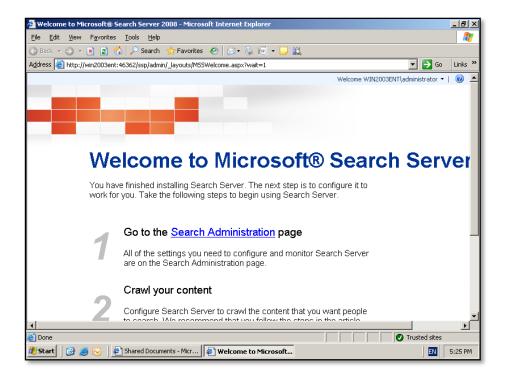
It is important to note this address because in future this is what you will type into the browser address line to access the site. Press the **Next** button to continue.

Configuring Sha	rePoint Products and Technolog	ies
Please wait while SharePoin	t Products and Technologies is configured.	
Performing configuration ta	sk 2 of 12	
Initiating the upgrade sequ	ance	
<u></u>		

The configuration process will now continue. The only option available is to stop the process via the **Cancel** button.

🚡 Si	harePoint Products and Technologies Configuration Wizard	
	Configuration Successful	
	Click Finish to close this wizard and navigate to the default SharePoint Web Application homepage. Internet Explorer users may be prompted for a username in the form DOMAIN[User_Name and password to access the site. At that prompt, enter the credentials that you used to logon to this computer. Add this site to the list of trusted sites when prompted.	
	<u></u>	
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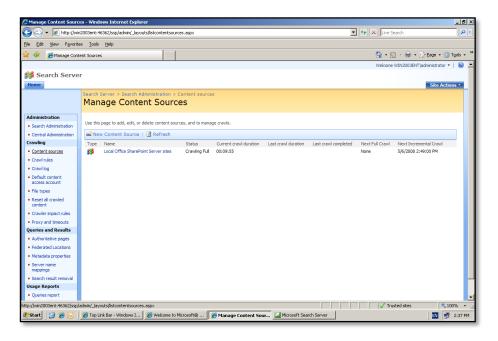
When the process is complete you will see the Window above. Press the **Finish** button.



The Search Server Express windows will now automatically be displayed. Click the link **Search Administration** to continue.

<u>E</u> dit <u>V</u> iew F <u>a</u> vorite	es <u>T</u> ools <u>H</u> elp		
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	Search Administration	1	
ministration			
Search Administration	System Status	·	Shortcuts *
Central Administration	Crawl status	Idle	Search Center site
awling	Items in index	3	 Keywords for this
Content sources	Server status	WIN2003ENT : D: 6GB	Search Center
Crawl rules	Propagation status	Propagation not required	 Scopes for this
	Default content access account	NT AUTHORITY\LOCAL SERVICE	Search Center
Crawl log	Contact e-mail address	someone@example.com	Welcome to Search Server
Default content access account	Proxy server	none	
File types	Scopes update status	Idle	Add new link
	Scopes update schedule	Automatically scheduled	I Want to
Reset all crawled content	Scopes needing update	0	Add new content
Crawler impact rules	Search alerts status	On Disable	to crawl
	Query logging	On Disable	Federate results
Descent and kinesets to			from other locations
		<u>ਡ</u>	Add users to
Proxy and timeouts eries and Results Authoritative pages			search

The Search Administration site will now be displayed. As you can see it is a WSS v3 site. By default, Search Server Express 2008 will automatically crawl (or index) information in the WSS v3 site, however it is possible to add additional sources for Search Server 2008 to index. To have additional sources index by Search Server 2008 click on the link **Content Sources** under the *Crawling* item from the left Quick link bar.



You should already see the *Local Office SharePoint Server sites* configured as content sources. Click the **New Content Source** from the menu bar.

	Windows Internet Explorer		_ 6
🕽 🕑 🔻 🙋 http://w	in2003ent:46362/ssp/admin/_layouts/addcontentsource.aspx	Live Search	2
e <u>E</u> dit ⊻iew F <u>a</u> vori	tes Iools Help		
r 🏟 🏾 🌈 Add Conten	t Source	🙆 • 🗟 - 🖶 • 🔂 e	jage + 🎯 Tgols +
		Welcome WIN2003ENT\adm	inistrator 🔻 🔞
Search Serve	er		
Home			Site Actions •
	Search Server > Search Administration > Content sources > Add Content Source Add Content Source		
	Add Content Source		
dministration	Use this wave to add a sector tax and		
Search Administration	Use this page to add a content source.		
Central Administration	* Indicates a required field		
rawling	Name	Name: * File Shares	
Content sources	Type a name to describe this content source.	rite Shares	
Crawl rules	Content Source Type	Select the type of content to be crawled:	
Crawl log Default content	content source type		
access account	Select what type of content will be crawled.	C SharePoint Sites	
File types	Note: This cannot be changed after this content source is created since other settings depend on it.	○ Web Sites ⊙ File Shares	
Reset all crawled content		C Exchange Public Folders	
Crawler impact rules		 Exchange Fublic Folders 	
Proxy and timeouts	Start Addresses	Type start addresses below (one per line): *	
ueries and Results	Type the URLs from which the search system should start crawling.	\\win2003ent\data	*
Authoritative pages	This includes contents of a file share, such as documents and other files.		
Federated Locations			
Metadata properties			_
Server name mappings		a .	×
 Search result removal 		Examples: \\server\directory, or	
Isage Reports		file://server/directory	
Queries report	Crawl Settinos	Colort erauling hologuing for all start addresses in this content on a	
e		Trusted sites	🔍 100% ·

Give the new content source a meaningful name, select what sort of your content you wish added. You can choose from:

- SharePoint sites

- Web Sites
- File Shares
- Exchange Public folders

Enter the starting address for the content next. It from this point down that Search Server Express 2008 will index. In this case we have selected a network shared folder.

🖉 Add Content Source - Windows Internet Explorer	X			
🚱 🕙 👻 🛃 http://win2003ent:46362/ssp/admin/_layouts/addcontentsource.aspx	💌 🐓 🗙 Live Search 🖉 💌			
Eile Edit View Favorites Iools Help				
👷 🎄 🏉 Add Content Source	🏠 🔹 🔂 🖌 🖶 🔹 🔂 Rage 🔹 🎯 Tgols 🔹 🎽			
Proxy and teneous Proxy and teneous Surk Addresses Surk Addresses Surk Addresses The the URLs from which the search system should start crawing. The includes contents of a file share, such as documents and other files. Secure region Search Addresses Secure region Gueries regiont Gueries regiont Crawl Settings Specify the behavior for crawing this type of content. Orose which fiders to include in the crawl.	Type start addresses balow (one per line): *			
Crawl Schedules Select the crawl schedules for this content source. Start Full Crawl Select "Start full Crawl	V The Schedule bit start table table of the Schedule bit schedul			
	OK Cancel			
Done 🏄 Start 📔 🍘 🍘 🕞 🏾 🌈 Top Link Bar - Windows I 🛛 🏀 Welcome to Microsoft D 🛛 🌈 Add Content Source 🖬 Microsoft	Search Server			

Scroll down and select the crawl settings, schedules and whether you wish a full crawl to commence immediately. When complete press the **OK** button to continue.

🕒 👻 🙋 http://win	2003ent:•	46362/ssp/admin/_Jayouts/ListContentSo	ources.aspx				💌 🐓 🗙 Live Se	arch
<u>E</u> dit <u>V</u> iew F <u>a</u> vorite	s <u>I</u> ools	; Help						
🎄 🄏 Manage Conti	ent Source	es					🙆 • 🖻	- 🖶 + 🔂 Bage + 🎯 To
							Welcome V	VIN2003ENT\administrator 🔹
Search Serve	r							
Home								Site Actions
	Search	Server > Search Administration >	Content source	es.				
		hage Content Sour						
Administration	the det	is page to add, edit, or delete content so						
 Search Administration 			urces, and to man	age craws.				
Central Administration	🚅 Ne	ew Content Source 🙆 Refresh						
Crawling	Туре		Status	Current crawl duration			Next Full Crawl	Next Incremental Crawl
Content sources	- 55	Local Office SharePoint Server sites	Idle		00:12:38	5/6/2008 2:37 PM	None	5/6/2008 2:49:00 PM
Crawl rules	2	File Shares	Crawling Full	00:00:01			5/6/2008 2:49:00 PM	5/6/2008 2:49:00 PM
 Crawl log 								
 Default content access account 								
 File types 								
 Reset all crawled content 								
Crawler impact rules								
 Proxy and timeouts 								
ueries and Results								
 Authoritative pages 								
Federated Locations								
 Metadata properties 								
 Server name mappings Search result removal 								
 Server name 								

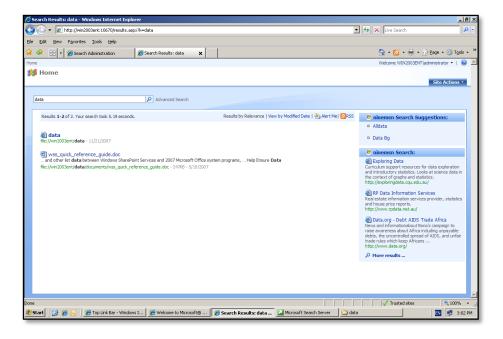
You should now see the content source you just configured displayed in the list. Continue to add content sources as required following the above method. When complete select the option **Search Administration** from the Quick link bar on the left of the screen under the *Administration* heading.

Edit View Favorite:	s <u>T</u> ools <u>H</u> elp						
🏘 🔡 🔹 🏀 Searc	h Administration 🛛 🗙 🔏 Home - Central Admin	istration				6	• 🔊 - 🖶 • 🗗 Page • 🎯 T
dministration							
Search Administration	System Status					-	Shortcuts
Central Administration	Crawl status	Crawling - Loo	al Office SharePoint Sei	rver sites; File Shi	ares		Search Center site
awling	Items in index	37					 Keywords for this Search Center
Content sources	Server status	WIN2003ENT	: D: 6GB				 Scopes for this Search Center Welcome to Search Server
Crawl rules	Propagation status	Propagation n	ot required				 Welcome to search server
Crawl log	Default content access account	NT AUTHORIT	Y\LOCAL SERVICE				Add new link
-	Contact e-mail address	sharepoint@sa	aturnalliance.com.au				I Want to
Default content access account	Proxy server	none					
File types	Scopes update status	Idle					 Add new content to crawl Federate results from other
Reset all crawled	Scopes update schedule	Automatically	scheduled				 Federate results from other locations
content	Scopes needing update	0			Add users to search		
Crawler impact rules	Search alerts status	On Disable			Customize the Search Center		
Proxy and timeouts	Query logging	On Disable	On Disable				 Secure the search system
ueries and Results		Enhance the user experience					
Authoritative pages						a	Read online documentation
Federated Locations	Active crawls						
	Content Source	Statu	s	Duration	Success	Error	
Metadata properties	File Shares		Crawling Full 00:04:39 10			0	
Server name mappings	Local Office SharePoint Server sites		Crawling Incremental 00:03:47 27			0	
Search result removal						đ	
sage Reports							
Queries report	Recently completed crawls					*	
Results report	Content Source	Туре	Finished	Duration	Success	Error	
	File Shares	Full	5/6/2008 2:51 PM	00:02:59	10	0	
	Local Office SharePoint Server sites	Full	5/6/2008 2:37 PM	00:12:38	8	1	
						\$	

At the Search Administration page you will now see a summary of all the content sources you have configures and their crawl progress and status.

Search Center - Home - Windows Internet Explorer				_ 6 ×
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To commence a search of your configured content simply enter the address of your Search Server site into a browser. Enter a query into the box and click on the magnifying glass or press **Enter**.



The results from your content will be returned on the left hand side while content matching the search from <u>www.live.com</u> will be returned on the right.

11.9 Indexing .MSG files

Another one of the file types that WSS v3 doesn't index by default is the .MSG format, which are email messages in Outlook (not Outlook Express) format. This indexing can easily be enabled by the following procedure.

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On the WSS v3 server login as an administrator and run the registry editor *regedit*.

Locate the key:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\OfficeServer\12.0\Search\Setup\Filters\.msg

You will probably find that it does not exist and therefore needs to be created. To create this key simply **right mouse click** on the *Filters* folder and select **New** then **Key** from the menus that appears.

When the new key has been created name it *.msg* (ensuring that you include the leading period (.)).

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Now **right mouse click** on this *.msg* folder and select **New** and **String Value** from the menus that appear.

Enter the value *Extension* as the name of the entry. If you now double click on the entry set the name to be *msg* (no leading period here) and select **OK** to save.

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Right mouse click on the *.msg* key folder again and select **New** then **DWORD** value from the menus that appear.

Name this variable *FileTypeBucket* and set its value to 1 by again double clicking on the entry.

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Right mouse click on the *.msg* key folder once more and select **New** then **String Value** from the menus that appear.

The name of this entry is *MimeTypes* and the value should be *application/vnd.ms-outlook* (if that doesn't work you can also try *application/msoutlook* instead but *application/vnd.ms-outlook* should work).

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The full entry for the new *.msg* key should appear like shown above. In summary:

Extension = msg FileTypeBucket = dword:0000001 MimeTypes = application/msoutlook

To complete the process you will need to perform an *IISRESET* on the WSS v3 server. If you already have *.msg* files in your WSS v3 site you will also need to perform a full crawl. Details about performing this can be found in **Section 11.7 Manual Full Crawl**.

You should now find that WSS v3 will index all the content in the Outlook MSG files as all the contents in any attachments associated with these MSG files. Now when you do a search any matching MSG results will be displayed in the search results.

11.10 Conclusion

This guide continues to be a work in progress and I encourage comments and feedback of any type. The only way that the Guide will improve if these is continued feedback.

Please send your comments and feedback to <u>director@ciaops.com</u>.