

foxit[®]



User Manual

Foxit[®] PDF IFilter

For Server

Microsoft Partner
Gold Independent Software Vendor (ISV)

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Chapter 1 - Overview

Welcome to Foxit PDF IFilter - a professional tool that helps you to index PDF files.

Foxit PDF IFilter is an application that extracts the contents, properties, bookmarks, form, annotations and attachments from PDF documents, indexes them, and returns the indexed results to the search engine so that users can search PDF documents with keywords.

Foxit PDF IFilter supports PDF 1.7 specification and can be used in many Microsoft search engines, such as Windows Indexing Service, MSN Desktop Search, Internet Information Server, SharePoint Portal Server, Windows SharePoint Services (WSS), Site Server, Exchange Server, SQL Server, and all other products based on Microsoft Search technology. With Foxit PDF IFilter, all these search engines can find PDF files with ease.

Why PDF IFilter?

PDF IFilter is necessary for several reasons:

- Microsoft creates and maintains office file formats, such as .doc, .xls, .ppt, etc. However, many other file formats are created and maintained by other companies. For example, PDF was created by Adobe.
- With the advantages of security, reliability and accessibility, PDF is now being used by more and more people all over the world.
- PDF IFilter is a plug-in that allows Microsoft search engines to index PDF files so that they become searchable. Without an appropriate PDF IFilter, contents of a PDF file cannot be indexed.

Why Foxit PDF IFilter?

Foxit PDF IFilter is favored by a large number of governments and well-known companies because of the following reasons:

- Foxit PDF IFilter helps to do PDF indexing, which makes finding information much easier.
- Foxit PDF IFilter supports multi-threading and makes full use of multi-CPU/core in a server.
- Foxit PDF IFilter supports native 64-bit code.
- Smaller and faster than other PDF IFilters.
- Supports twelve languages. Please go to [Language Support](#) part for details.

How Foxit PDF IFilter works?

Foxit PDF IFilter acts as a plug-in for full-text search engines. A search engine usually works in two steps:

Step 1, the search engine goes through a designated place, e.g. a file folder or a database, and indexes all documents or newly modified documents, including PDF documents, in the background and creates internal data to store the indexed result.

Step 2, a user specifies some keywords for search and the search engine looks up the indexing result and responds to the user with all the documents that contain the keywords.

During Step 1, the search engine looks in the windows registry for appropriate IFilter implementations and uses those filters for indexing. It filters out embedded formatting and extracts text from the document and returns the result. Foxit PDF IFilter is one such implementation. Further information about the IFilter specification can be found on the [Microsoft Web site](#).

Key Benefits

- Integrates with existing operating systems and tools within your company.
- Provides an easy solution to search within PDF documents located on the local computer, local network, and/or intranet.
- Greatly increases your ability to accurately locate information.
- Much smaller and faster than PDF IFilters offered by other vendors.
- Supports Chinese/Japanese/Korean PDF documents.
- Supports native 64-bit code.
- Supports searching and indexing PDFs by extracting subject, author and content of annotations.
- Supports multi-threading and takes full use of multiple-CPU in a server.

Chapter 2 - Getting Started

Installing Foxit PDF IFilter

To install Foxit PDF IFilter on your environment, please first download the current version with the link provided in the sales email after purchasing the license. Also, you could apply for 30-day trail from Foxit Website (<http://www.foxitsoftware.com/products/ifilter/>).

There are two packs of Foxit PDF IFilter, which are respectively for 32bit OS and 64bit OS. Please get the proper one and install it as follows.

1. Stop all the appropriate clients.
2. Uninstall any previous version of Foxit PDF IFilter if installed.
3. Launch the installer of Foxit PDF IFilter and follow the step to finish the installation.
4. Restart all the appropriate clients after finishing the installation.

Notes:

- *More installation steps are required for SQL, WSS and Moss environments. Please refer to the corresponding chapter.*
- *Foxit PDF IFilter item will appear in program list of Control Panel after installation.*
- *Foxit PDF IFilter has no user interface.*
- *The installer will unzip an add-on called **fpdfcjk.bin** to the installation folder. The add-on will help you to index PDF documents containing Chinese/Japanese/Korean characters.*

Configuring Foxit PDF IFilter

There are five registry items for configuring Foxit PDF IFilter. They are under the directory: "HKEY_LOCAL_MACHINE\SOFTWARE\Foxit Software\Foxit PDF IFilter".

FilterAnnotation[REG_DWORD] - sets the value to specify whether to filter out annotations. 0 represents no and other values represent yes.

FilterBookmarks[REG_DWORD] - sets the value to specify whether to filter out bookmarks. 0 represents no and other values represent yes.

FilterAttachFile [REG_DWORD] - sets the value to specify whether to filter out attachments. 0 represents no and other values represent yes.

LogLevel [REG_DWORD] - sets the log level. Value can be from 0 to 3.

0 - no output

- 1 - Error log only. Includes error information when errors happen, and stack message when the application crashes.
- 2 - Simple log which only includes the main calling functions and returned values.
- 3 - Detailed log which includes specific information such as date and chunk.

LogFilepath [REG_SZ] - sets the output path of log file.

Note:

The default setting in Foxit PDF IFilter is to filter out bookmarks. Restart the application if you made any changes to the registry.

Updating Foxit PDF IFilter

To update Foxit PDF IFilter, you can download the latest version from Foxit website and then install it. When updating, the old version will be overwritten.

Uninstalling Foxit PDF IFilter

To remove the old version of Foxit PDF IFilter, please uninstall it from Control Panel or with the help of the installer as below:

1. From Control Panel:
 - Choose **Start > Control Panel > Add or Remove Programs**.
 - Choose the "Foxit PDF IFilter" item and then click "Remove" button to uninstall it.
2. From the installer:
 - Double-click the Foxit PDF IFilter.msi setup file that was used to install Foxit PDF IFilter.
 - In the Foxit PDF IFilter dialog box, select **Remove Foxit PDF IFilter**.
 - Click the **Finish** button to uninstall it.

Chapter 3 - Foxit PDF IFilter for SharePoint/MOSS

Foxit PDF IFilter can help search text in PDF files. After installing Foxit PDF IFilter, you should upload your PDF documents and perform a full crawl with Microsoft Office SharePoint Server (MOSS) before you start searching.

You don't have to do full crawls every time you add new PDF files. You may schedule the incremental crawls for all the new ones.

Working in SharePoint 2010

Installing Foxit PDF IFilter

Foxit PDF IFilter has two versions respectively for 32-bit Windows and 64-bit Windows. You can choose one of them to install into your machine according to your system requirements. Before installing Foxit PDF IFilter, please note that Microsoft Office SharePoint Server has been installed successfully.

To install Foxit PDF IFilter, please do the following:

- Download Foxit PDF IFilter from Foxit Website (<http://www.foxitsoftware.com>) onto the machine where you wish to install it.
- Stop the IIS Admin service: Start > Administrator Tools > Services(Local) > IIS Admin Service > Stop. Close window.
- Run the Foxit PDF IFilter Setup program to install the filter on the server.
- Download PDF icon from <http://www.foxitsoftware.com/pdf/ifilter/pdficon.gif>.
- Copy the downloaded .GIF file to "Drive:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\Template\Images".
- Edit the file "Drive:\Program Files\Common Files\Microsoft Shared\Web server extensions\14\Template\Xml\DOCICON.XML":
 1. Right-click DOCICON.XML file > click Open With > select Notepad.
 2. Add an entry for the .pdf extension. For example, where ICPDF is the name of the .gif file:

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<Mapping Key="pdf" Value="pdficon.gif"/>
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DOCICON.XML - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="utf-8"?>
<DocIcons>
  <ByProgID>
    <Mapping Key="Excel.Sheet" value="ichtmxls.gif" EditText="Microsoft Excel" OpenC
    <Mapping Key="FrontPage.Editor.Document" value="ichtmfp.gif" EditText="Microsoft
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    <Mapping Key="InfoPath.Document.3" value="icxddoc.gif" EditText="Microsoft InfoP
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  </ByProgID>
  <ByExtension>
    <Mapping Key="pdf" value="pdficon.gif"/>
    <Mapping Key="accdb" value="icaccdb.gif" EditText="Microsoft Access" OpenContro
    <Mapping Key="accdt" value="icaccdb.gif"/>
    <Mapping Key="accdc" value="icaccdb.gif"/>
    <Mapping Key="accde" value="icaccde.gif" EditText="Microsoft Access" OpenContro
    <Mapping Key="accdr" value="icaccde.gif" EditText="Microsoft Access" OpenContro
    <Mapping Key="asax" value="icasax.gif" OpenControl="" />
    <Mapping Key="ascx" value="icascx.gif" EditText="Microsoft SharePoint Designer"
    <Mapping Key="asmx" value="icasmx.gif" OpenControl="" />
    <Mapping Key="asp" value="ichtm.gif" OpenControl="" />
    <Mapping Key="aspx" value="ichtm.gif" EditText="Microsoft SharePoint Designer" o
    <Mapping Key="bmp" value="icbmp.gif"/>
    <Mapping Key="cat" value="iccat.gif" OpenControl="" />
  </ByExtension>
</DocIcons>
  
```

1. On the File menu, click Save, and then quit Notepad.

Note: This directly changes the icons shown on the search result. Make sure this change takes effect in the appropriate server where search results are displayed i.e. any web front end (WFE) that supports user interfacing.

- Perform an iisreset:
 1. Click Start > Run > type "cmd" in the Open line> click OK > type "iisreset" at the command prompt > hit Enter.

```

C:\ E:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

E:\Documents and Settings\Administrator> iisreset
Attempting stop...
Internet services successfully stopped
Attempting start...
Internet services successfully restarted

E:\Documents and Settings\Administrator>_
  
```

2. Close the window.

- Stop and start the Sharepoint Search Service by running the following commands:
 1. net stop spsearch4
 2. net start spsearch4
 3. net stop osearch14
 4. net start osearch14

Note:

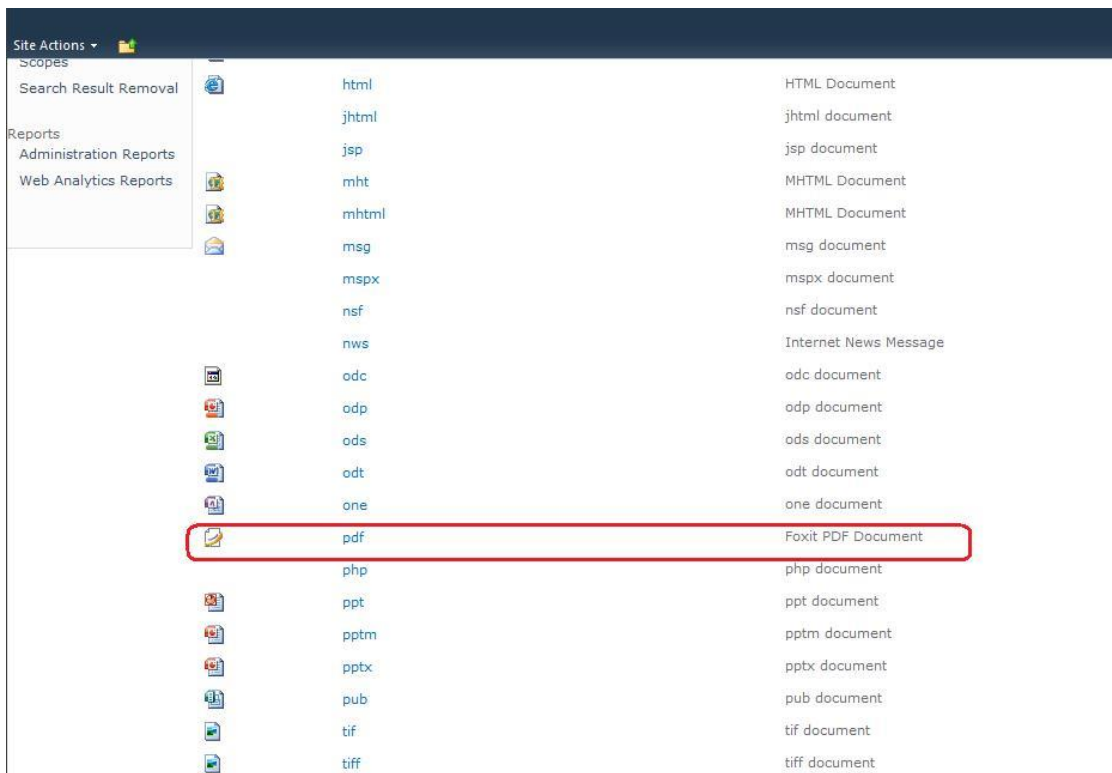
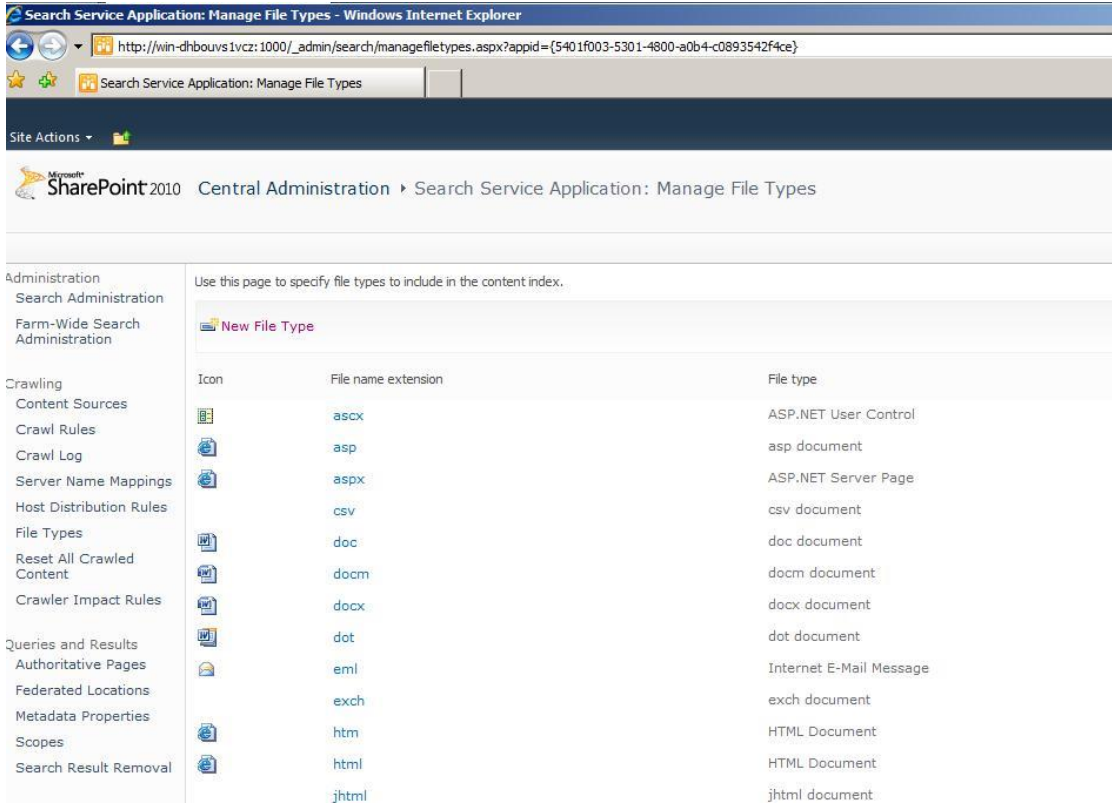
If you changed the settings for IFilter in the configurable registry, please perform the following commands in the command prompt window:

1. iisreset
2. net stop spsearch4
3. net start spsearch4
4. net stop osearch14
5. net start osearch14

Indexing PDFs

To index PDF files on your computer, please do the following:

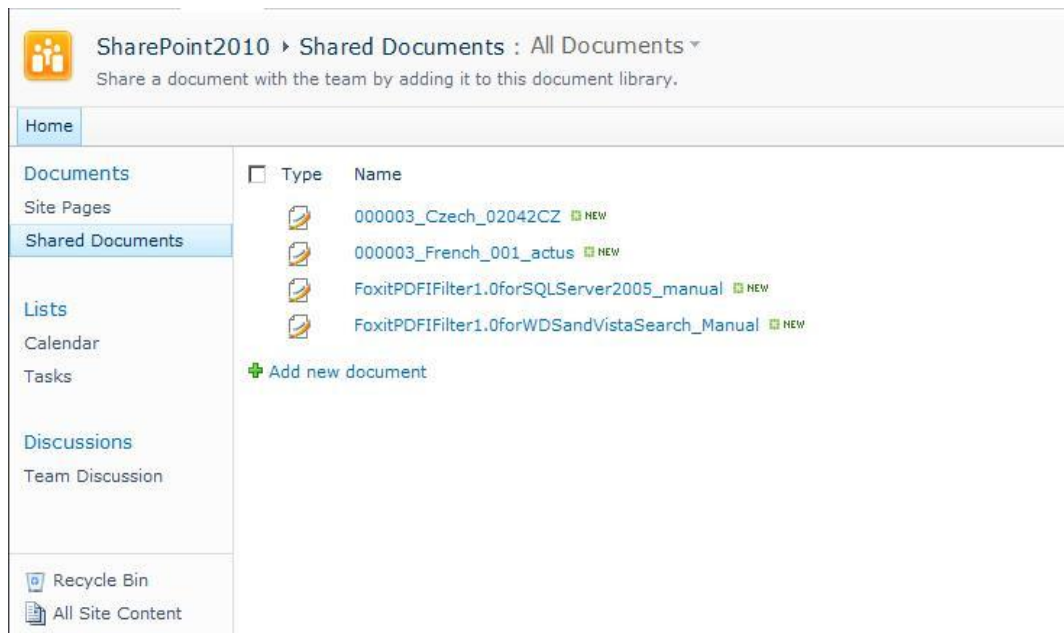
- Add the .pdf file type to the index list:
 1. Go to the **Search Service Application: Search Administration** page, in the **Crawling** section, click **File Types**.
 2. Click **New File Type** > type "pdf" in the **File extension** field > click **OK**.



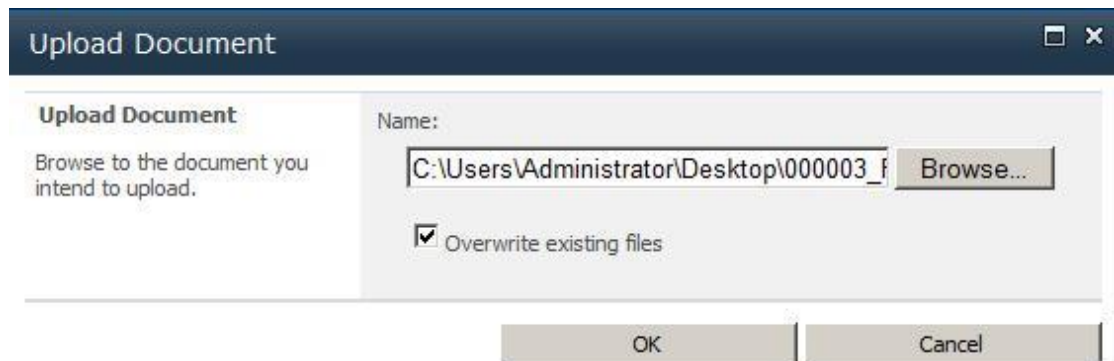
The PDF file type has been added

- Upload a PDF file, and perform a Full Crawl on the Search content indexes:

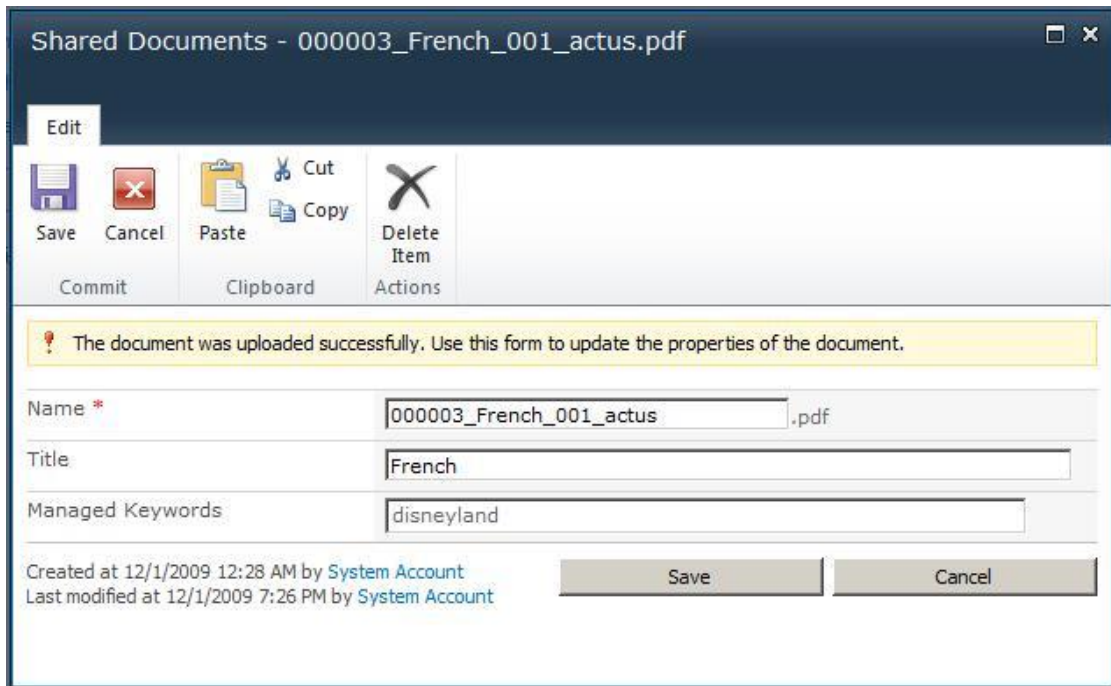
1. Go to the **Shared Documents**, and click **Add new document**.



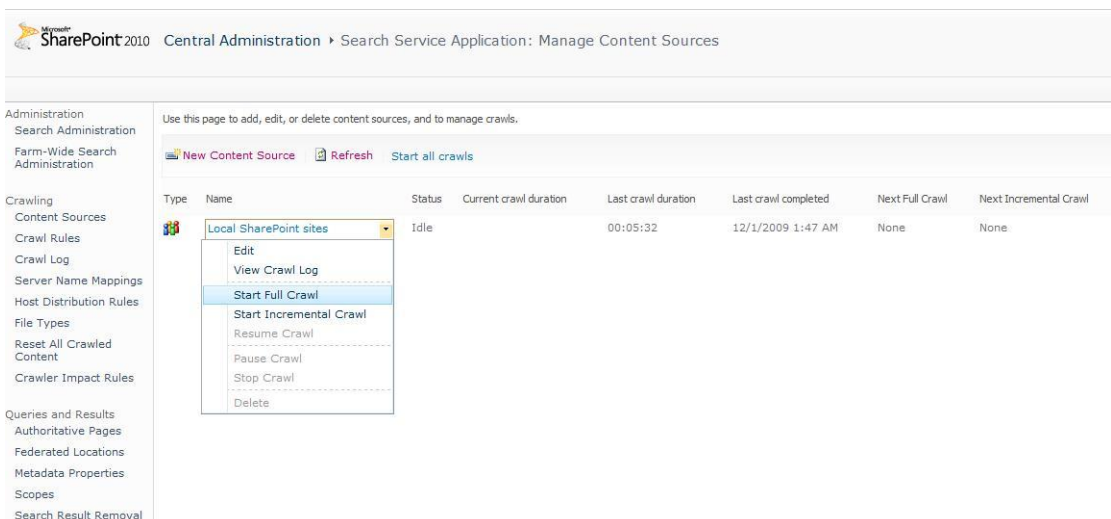
2. Click the **Browse** button to upload a PDF document and click **OK**.



3. In Edit page, you can give the title, keywords, if you like, to your uploaded PDF file. Click the Save button.

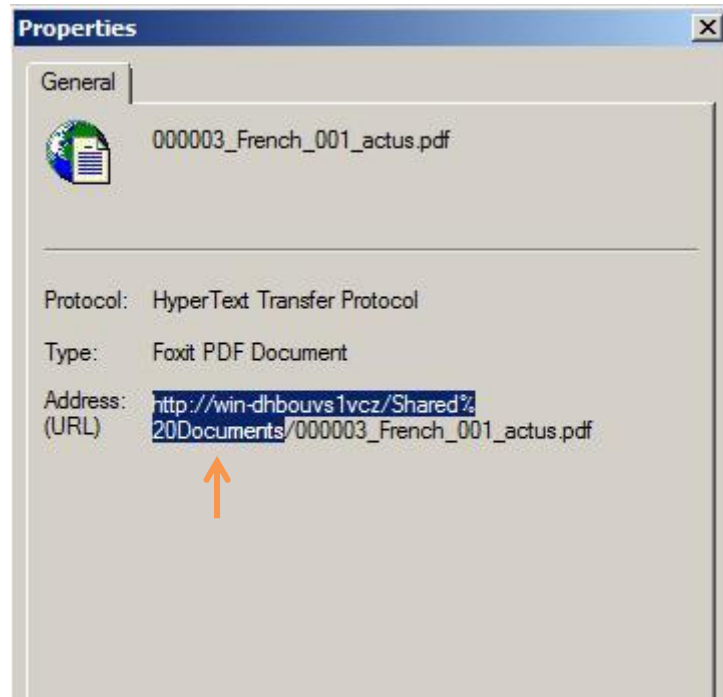


4. When you are done, you will be returned to the Documents page where you will see that your PDF file has been uploaded.
5. Return to the Search Application: Search Administration home page, in Crawling section, click Content Sources link.
6. On the Manage Content Sources page, open the content source's context menu by left-clicking the down arrow and select Start Full Crawl to index all files. This will start the indexing process.

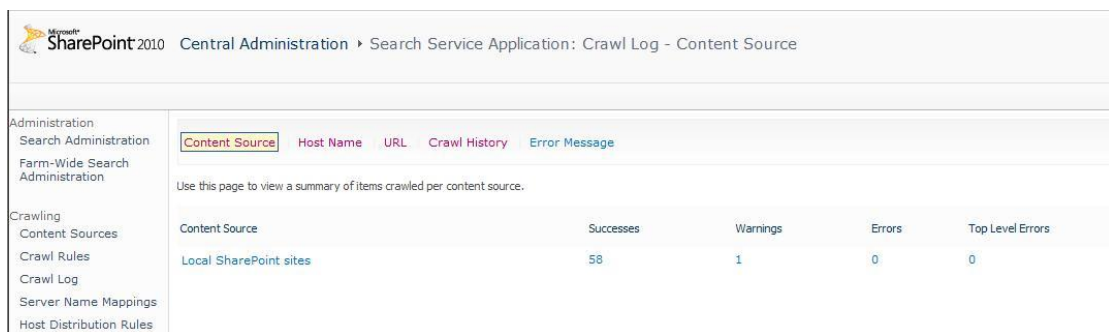


7. (Optional) To start an incremental crawl, please open the content source's context menu by left-clicking the down arrow and select Start Incremental Crawl.
- View Crawl Logs.

1. Return to the **Shared Documents**.
2. Right-click the PDF document you have uploaded > choose **Properties**.
3. Select the **address (URL)** of the PDF file except [filename.pdf] > right-click the selected area > choose **Copy**.



4. Go to the **Manage Content Sources** page, open the content source's context menu by left-clicking the down arrow and select **View Crawl Log**



5. In **Crawl Log** page, click **URL**, paste the URI to **URL or Host name** >click **search** button. When you're done, you can see the whole URL of the uploaded PDF file appear on the list.

Content Source Host Name **URL** Crawl History Error Message

Use this page to search the crawl logs by content source, URL or host name. To Further narrow the search apply 'Additional Filters'.

Search By
 Content Source
 URL or Host name

Exact Match

Additional Filters
 Status:
 Message:
 Complete message: All
 Start Time: End Time:

Results returned - 63 Items

Item ID	URL	Content Source	Last Time Crawled
62	http://win-dhbouvs1vcz/shared%20documents/forms/disform.aspx?id=9 Deleted by the gatherer.	Local SharePoint sites	12/1/2009 12:31:40 AM
51	http://win-dhbouvs1vcz/sitepages/home.aspx Crawled	Local SharePoint sites	12/1/2009 12:30:59 AM
59	http://win-dhbouvs1vcz/shared%20documents/forms/disform.aspx?id=14 Crawled	Local SharePoint sites	12/1/2009 12:30:59 AM
56	http://win-dhbouvs1vcz/shared%20documents/forms/disform.aspx?id=13 Crawled	Local SharePoint sites	12/1/2009 12:30:59 AM

Searching PDFs

After you finish indexing PDF files, you can start a search to find text within PDF files. Also, you can search PDF document properties, such as author, title, etc.

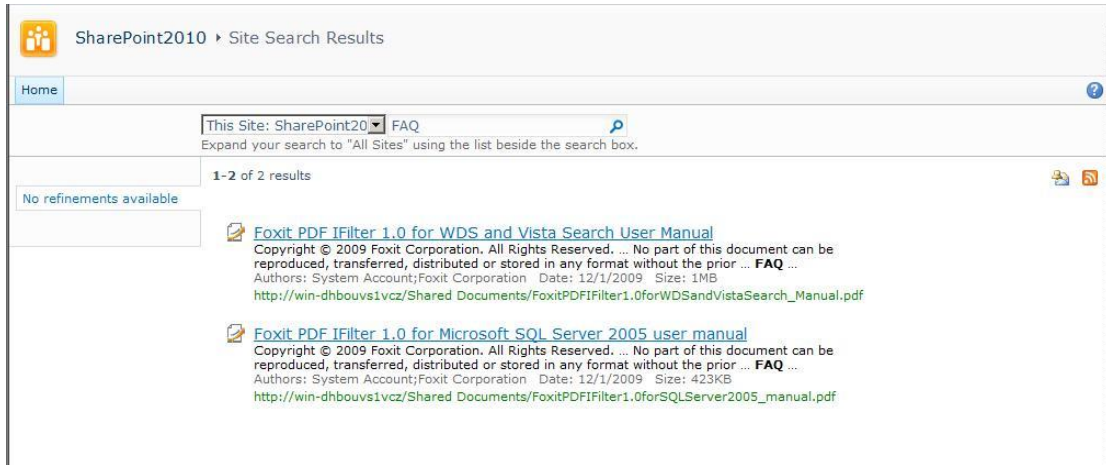
To start a search, please perform the following:

- Go to the **Shared Documents: All Documents** page, type the text you want to search in the search box > hit Enter.

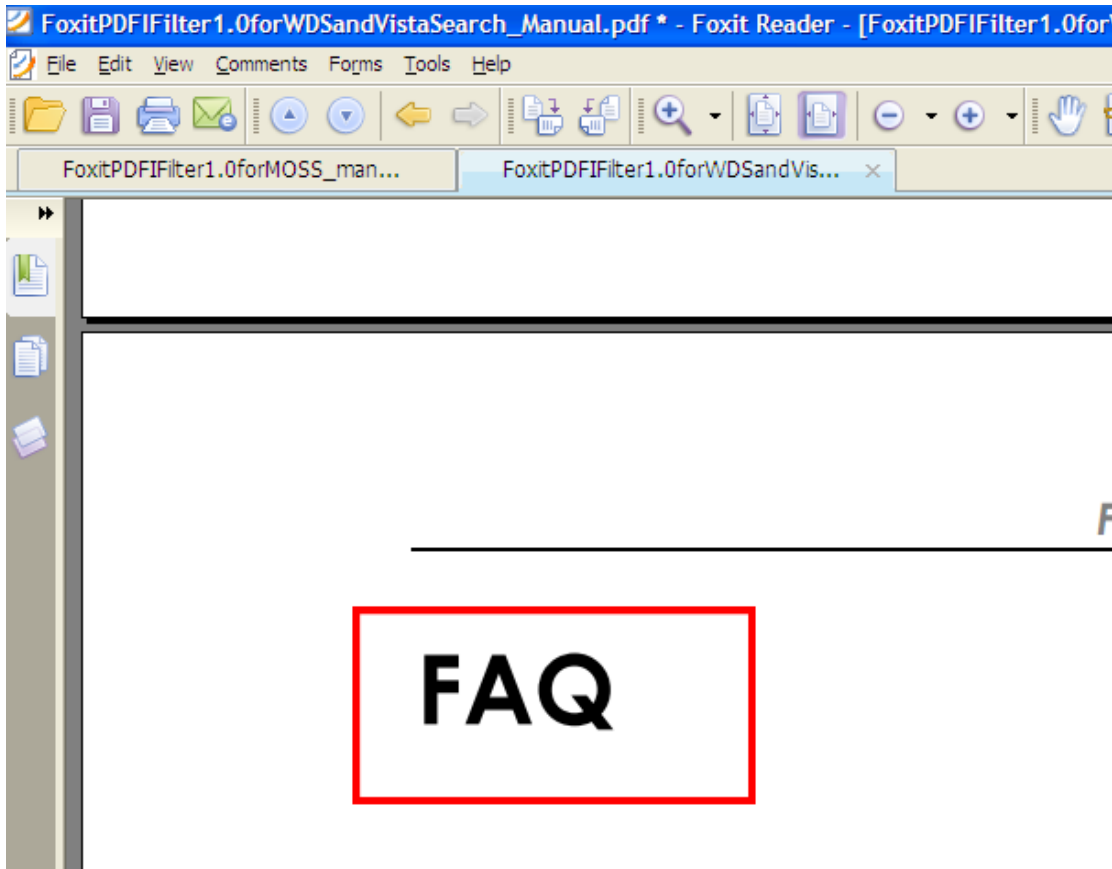
010 > Shared Documents : All Documents ▾
 ent with the team by adding it to this document library.

Type	Name	Modified	Modified By
	000003_Czech_02042CZ	12/1/2009 12:28 AM	System Account
	000003_French_001_actus	12/1/2009 7:26 PM	System Account

- You will see your search results. Click to open one of the PDF files.



Search results



Open one of the search results

Working in Moss 2007

Installing Foxit PDF IFilter

Foxit PDF IFilter has two versions respectively for 32-bit Windows and 64-bit Windows. You can choose one of them to install onto your machine according to your system

requirements. Before installing Foxit PDF IFilter, please note that Microsoft Office SharePoint Server has been installed successfully.

To install Foxit PDF IFilter, please do the following:

- Download Foxit PDF IFilter from Foxit Website (<http://www.foxitsoftware.com>) onto the machine where you wish to install it.
- Stop the IIS Admin service: Start > Settings > Control Panel > Administrator Tools > Services > IIS Admin Service > Stop. Close window.
- Run the Foxit PDF IFilter Setup program to install the filter on the server.
- Download PDF icon from <http://www.foxitsoftware.com/pdf/ifilter/pdficon.gif>.
- Copy the downloaded .GIF file to "Drive:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\Template\Images".
- Edit the file "Drive:\Program Files\Common Files\Microsoft Shared\Web server extensions\12\Template\Xml\DOCICON.XML":
 1. Right-click DOCICON.XML file > click Open With > select Notepad.
 2. Add an entry for the .pdf extension. For example, where ICPDF is the name of the .gif file:

```
<Mapping Key="pdf" Value="pdficon.gif"/>
```

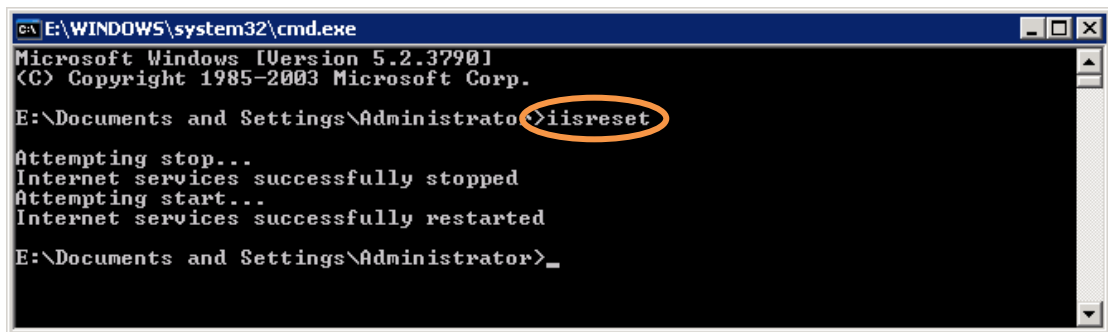
```
DOCICON.XML - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="utf-8"?>
<DocIcons>
  <ByProgID>
    <Mapping Key="Excel.Sheet" value="ichtmxls.gif" EditText="Microsoft Excel" openC
    <Mapping Key="FrontPage.Editor.Document" value="ichtmfp.gif" EditText="Microsoft
    <Mapping Key="InfoPath.Document" value="icxddoc.gif" EditText="Microsoft InfoPat
    <Mapping Key="InfoPath.Document.2" value="icxddoc.gif" EditText="Microsoft InfoP
    <Mapping Key="InfoPath.Document.3" value="icxddoc.gif" EditText="Microsoft InfoP
    <Mapping Key="InfoPath.Document.4" value="icxddoc.gif" EditText="Microsoft InfoP
    <Mapping Key="ODC.Cube" value="icodcc.gif" EditText="Microsoft Excel" OpenContro
    <Mapping Key="ODC.Database" value="icodcd.gif" EditText="Microsoft Excel" openCo
    <Mapping Key="ODC.Table" value="icodct.gif" EditText="Microsoft Excel" OpenContr
    <Mapping Key="Onenote.Notebook" value="icnotebk.png" EditText="Microsoft OneNote
    <Mapping Key="PowerPoint.Slide" value="ichtmppt.gif" EditText="Microsoft PowerPO
    <Mapping Key="Publisher.Document" value="ichtmpub.gif" EditText="Microsoft Publi
    <Mapping Key="SharePoint.DocumentSet" value="icdocset.gif"/>
    <Mapping Key="SharePoint.WebPartPage.Document" value="icsmrtpg.gif" EditText="Mi
    <Mapping Key="Visio.WebDrawing" value="icvdw.gif" EditText="Microsoft Visio" Ope
    <Mapping Key="word.Document" value="ichtmdoc.gif" EditText="Microsoft word" open
    <Mapping Key="xdocs.Document" value="icxddoc.gif" EditText="Microsoft InfoPath"
    <Mapping Key="SharePoint.Link" value="DOCLINK.GIF"/>
    <Mapping Key="SharePoint.SearchAdminReport" value="icsadrep.gif" EditText="Micro
  </ByProgID>
  <ByExtension>
    <Mapping Key="pdf" value="pdficon.gif"/>
    <Mapping Key="accdb" value="icaccdb.gif" EditText="Microsoft Access" OpenContro
    <Mapping Key="accdt" value="icaccdb.gif"/>
    <Mapping Key="accdc" value="icaccdb.gif"/>
    <Mapping Key="accde" value="icacdde.gif" EditText="Microsoft Access" OpenContro
    <Mapping Key="accdr" value="icacdde.gif" EditText="Microsoft Access" OpenContro
    <Mapping Key="asax" value="icasax.gif" OpenControl="" />
    <Mapping Key="ascx" value="icascx.gif" EditText="Microsoft SharePoint Designer"
    <Mapping Key="asmx" value="icasmx.gif" OpenControl="" />
    <Mapping Key="asp" value="ichtm.gif" OpenControl="" />
    <Mapping Key="aspx" value="ichtm.gif" EditText="Microsoft SharePoint Designer" o
    <Mapping Key="bmp" value="icbmp.gif"/>
    <Mapping Key="cat" value="iccat.gif" OpenControl="" />
```

3. On the File menu, click Save, and then quit Notepad.

Note: This directly changes the icons shown on the search result. Make sure this change takes effect in the appropriate server where search results are displayed i.e. any web front end (WFE) that supports user interfacing.

- Perform an iisreset:

1. Click Start > Run > type “cmd” in the Open line> click OK > type “iisreset” at the command prompt > hit Enter.

A screenshot of a Windows command prompt window. The title bar reads "E:\WINDOWS\system32\cmd.exe". The window content shows the following text: "Microsoft Windows [Version 5.2.3790] (C) Copyright 1985-2003 Microsoft Corp. E:\Documents and Settings\Administrator>iisreset Attempting stop... Internet services successfully stopped Attempting start... Internet services successfully restarted E:\Documents and Settings\Administrator>_". The command "iisreset" is circled in orange.

2. Close the window.

- Stop and start the Sharepoint Search Service by running the following commands:
 1. net stop spsearch
 2. net start spsearch
 3. net stop osearch
 4. net start osearch

You don't have to do full crawls every time you add some new PDF files. You may schedule the incremental crawls for all the new ones.

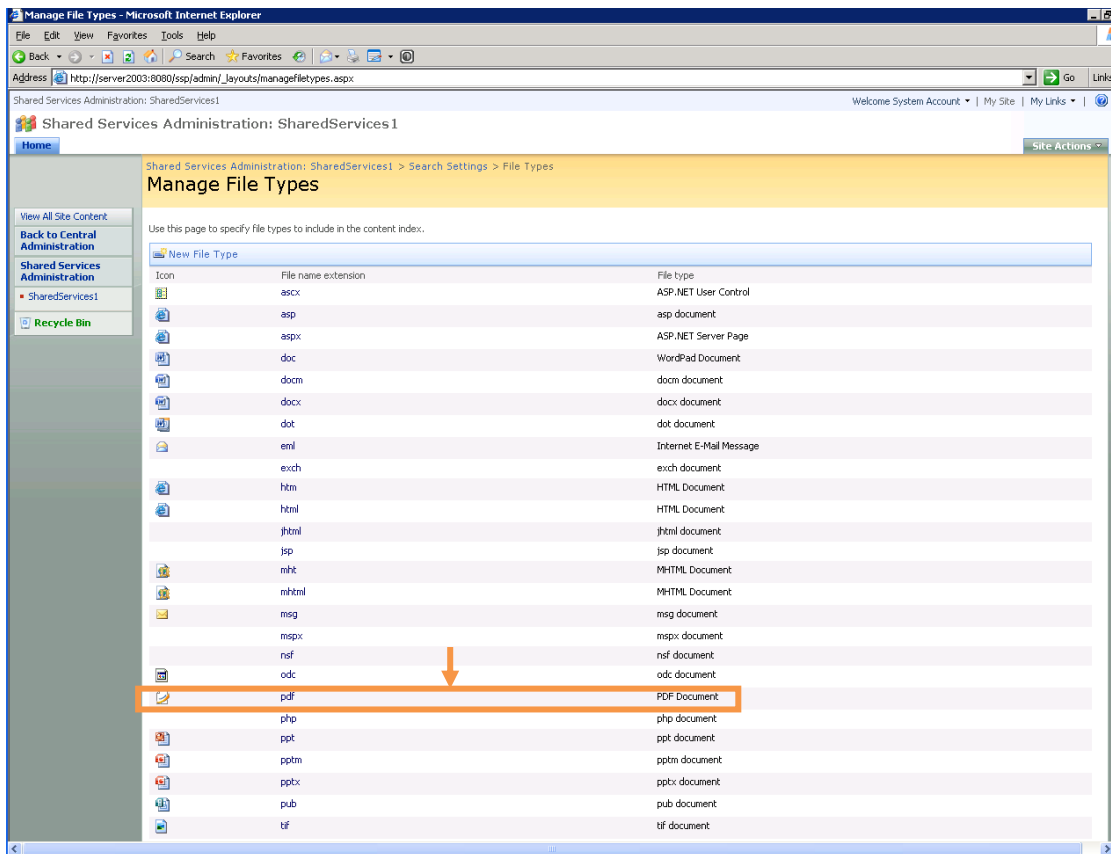
Note:

- Click to check the parts of [Updating Foxit PDF IFilter](#) and [Uninstalling Foxit PDF IFilter](#).
- If you changed the settings for IFilter in the configurable registry, please perform the following commands in the command prompt window:
 1. iisreset
 2. net stop spsearch
 3. net start spsearch
 4. net stop osearch
 5. net start osearch

Indexing PDFs

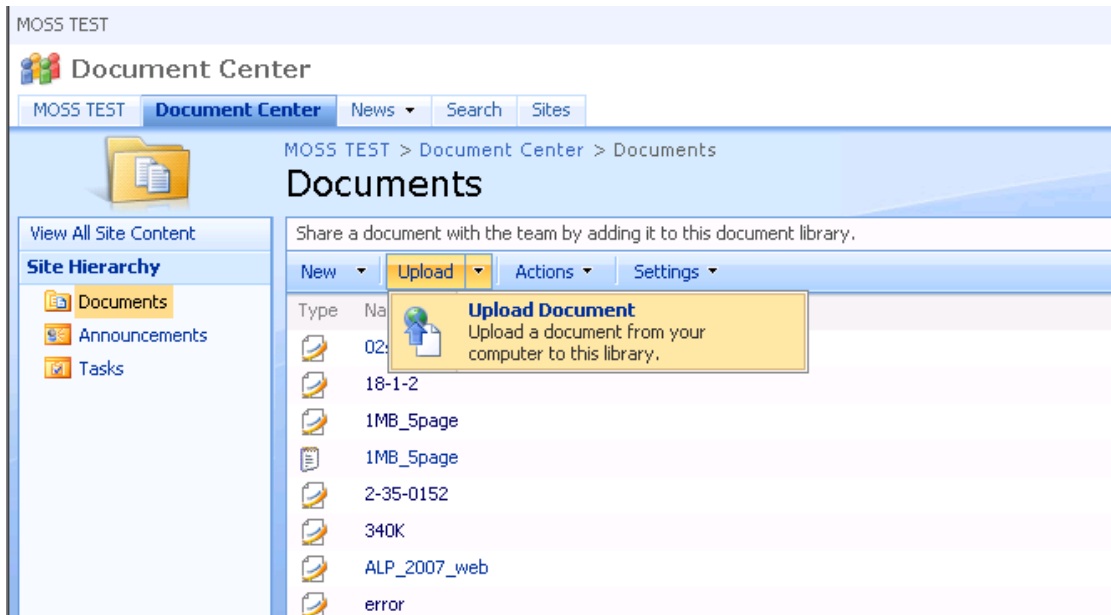
To index PDF files on your computer, please do the following:

- Add the .pdf file type to the index list:
 1. Go to the **Shared Service Administration: SharedServices 1** home page, click **Search Settings** link > under **Crawl Settings** click **File Types**.
 2. Click **New File Type** > type “pdf” in the **File extension** field > click **OK**.

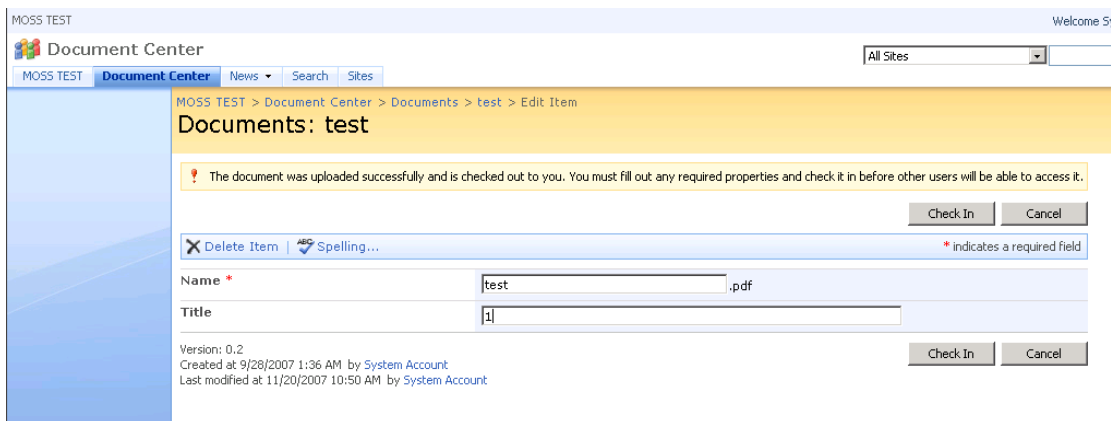


The PDF file type has been added

- Upload a PDF file, and perform a Full Crawl on the Search content indexes:
 1. Go to the **Document Center**, and click **Documents**.
 2. Click **Upload**, and then **Upload Document**.



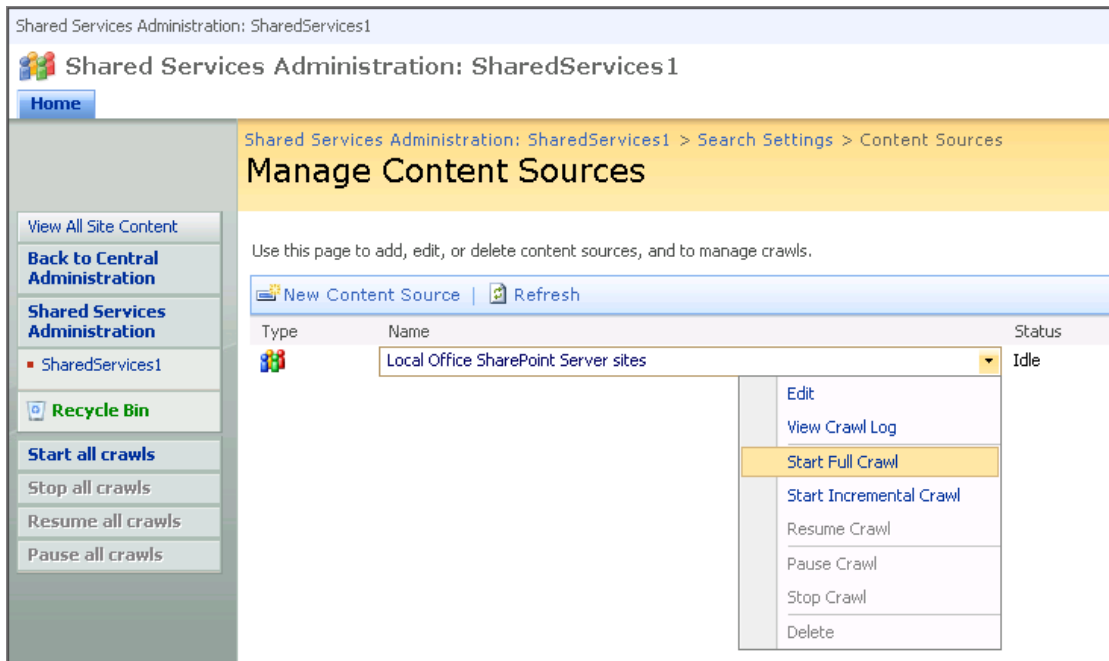
3. Click the **Browse** button to upload a PDF document and click **OK**. When it has uploaded, the **Documents Edit Item** page is displayed. You can give a title, if you like, to your uploaded PDF file. Click the **Check In** button.



4. When you are done, you will be returned to the Documents page where you will see that your PDF file has been uploaded.

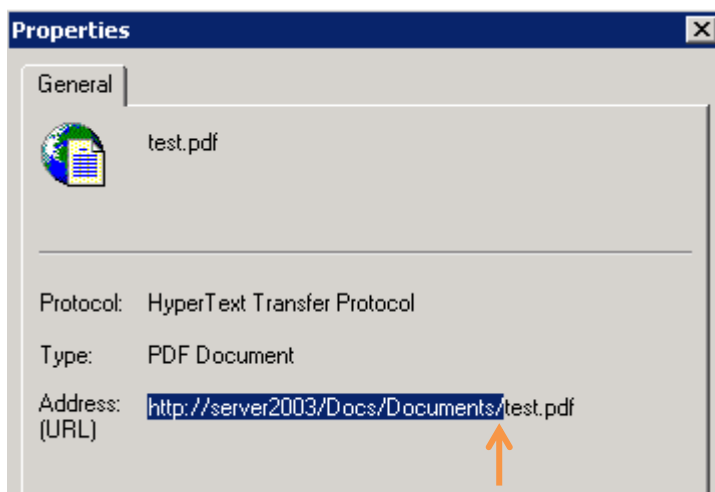
5. Return to the **Shared Service Administration: SharedServices 1** home page, click **Search Settings** link> under **Crawl Settings** click **Content sources and crawl schedules**.

6. On the **Manage Content Sources** page, open the content source's context menu by left-clicking the down arrow and select **Start Full Crawl** to index all files. This will start the indexing process.

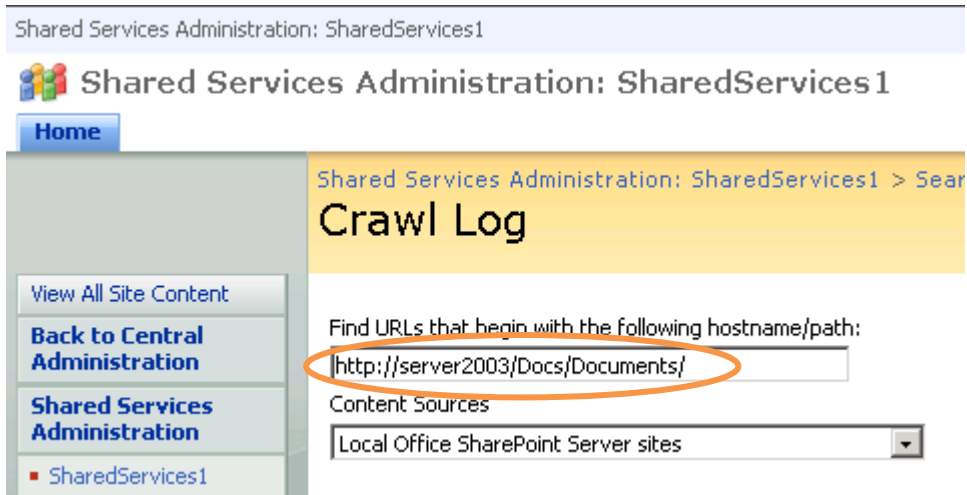


7. (Optional) To start an incremental crawl, please open the content source’s context menu by left-clicking the down arrow and select **Start Incremental Crawl**.

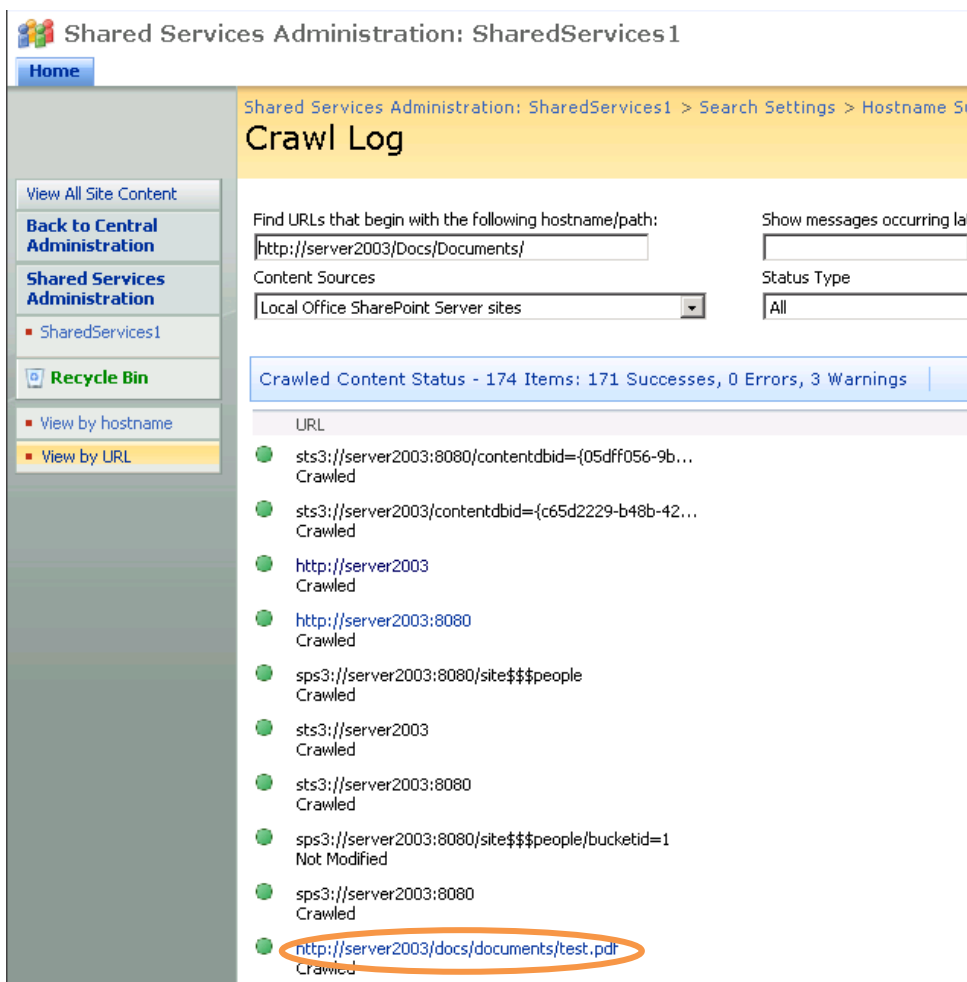
- View Crawl Logs.
 1. Return to the **Document Center**, and click **Documents**.
 2. Right-click the PDF document you have uploaded > choose **Properties**.
 3. Select the **address (URL)** of the PDF file except [filename.pdf] > right-click the selected area > choose **Copy**.



4. Go to the **Manage Content Sources** page, open the content source’s context menu by left-clicking the down arrow and select **View Crawl Log** > paste the URL to **Find URLs that begin with the following hostname/path** field > click the **Filter** button.



5. When you're done, you can see the whole URL of the uploaded PDF file appear in the **Crawl Log** list.

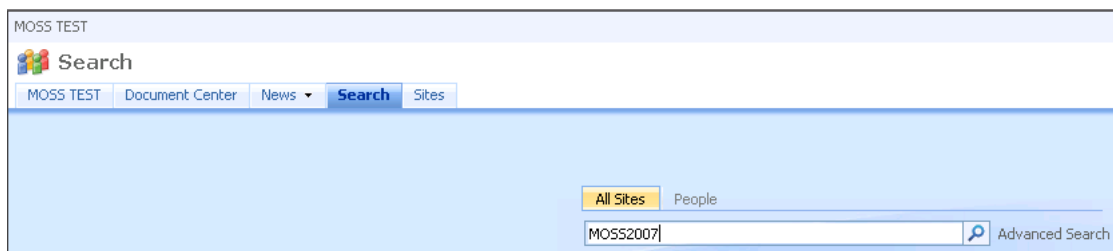


Searching PDFs

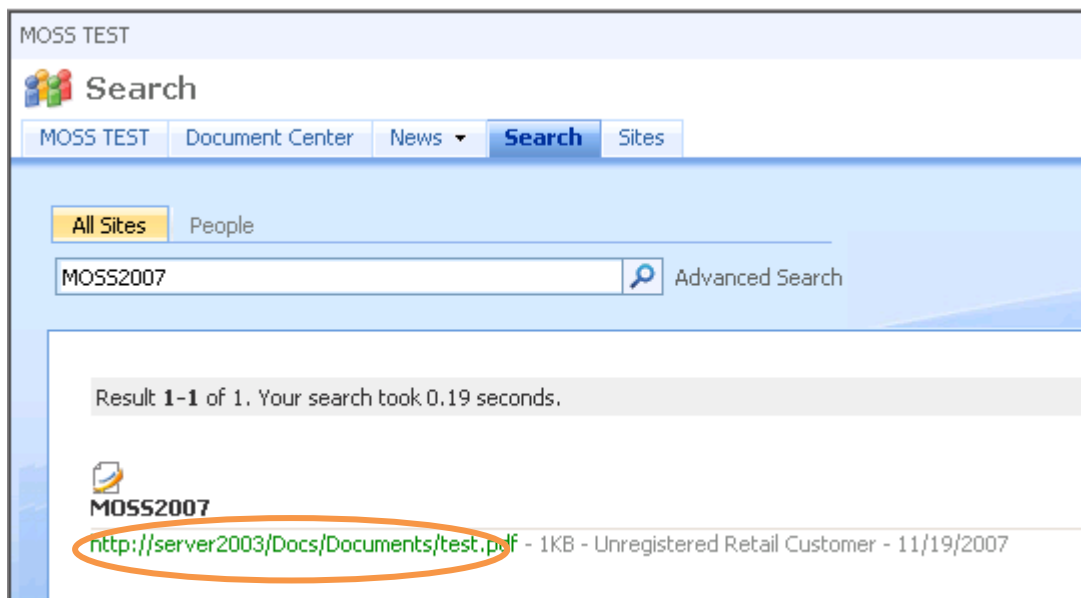
After you finish indexing PDF files, you can start a search to find text within PDF files. Also, you can search PDF document properties, such as author, title, etc.

To start a search, please perform the following:

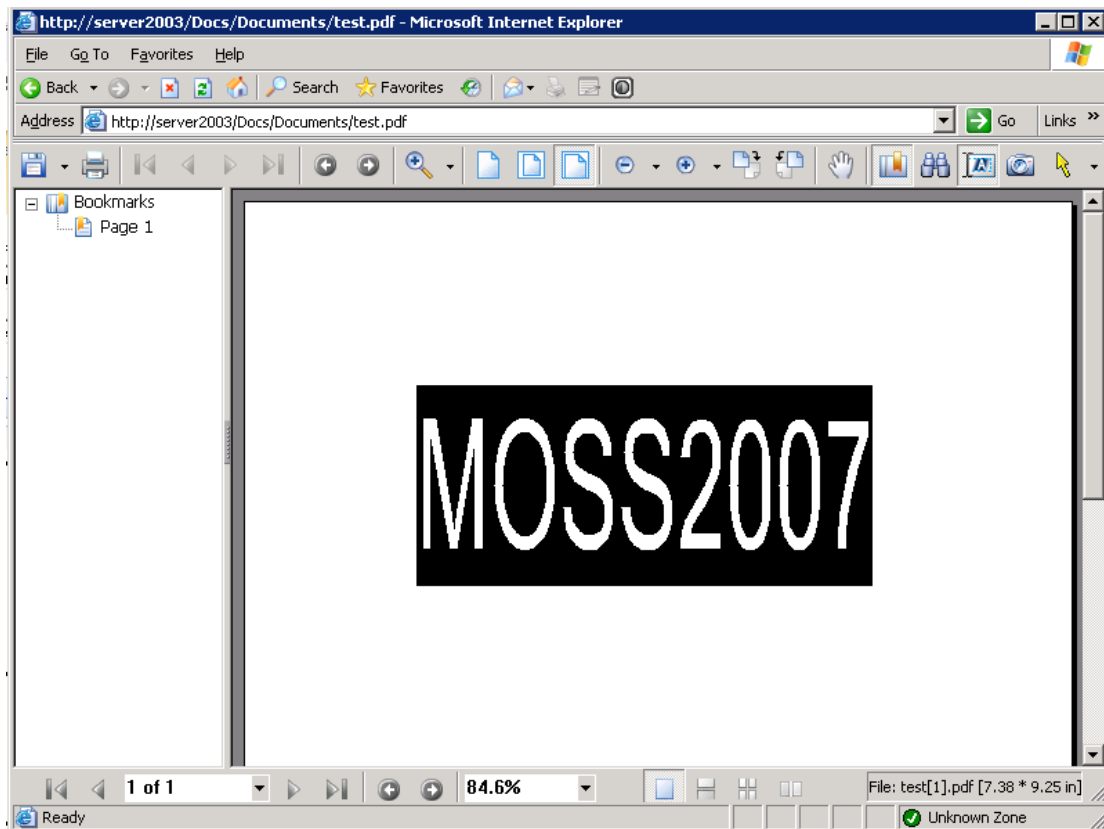
- Go to the **Document Center**, and click **Search** to visit the Search Center > type the text you want to search > hit Enter.



- You will see your search results. Click to open one of the PDF files.



Search results



Open one of the search results

More Help

For more information on how to work with Microsoft Office SharePoint Server (MOSS), please refer to Microsoft Office SharePoint Server (MOSS) Help included in the product.

Chapter 4 - Foxit PDF IFilter for Microsoft SQL Server

Foxit PDF IFilter can help search text in PDF files. After installing Foxit PDF IFilter, it asks to upload the PDF documents and perform a full population with Microsoft SQL Server before you start a search.

Note:

Generally, all the instructions in this chapter are for Microsoft SQL Server 2012/2008/2005. And the screenshots are from Microsoft SQL Server 2012 by default. If there is any difference between SQL Server 2012 and 2008/2005, we will point it out as well as attach a screenshot.

Installing Foxit PDF IFilter

Foxit PDF IFilter has two packs respectively for 32-bit Windows and 64-bit Windows. You can choose one of them to install into your machine according to your system requirements. Before installing Foxit PDF IFilter, please make sure that Microsoft SQL Server has been installed successfully.

To install Foxit PDF IFilter on SQL server, please follow the steps as below.

1. Create a new functioning database to store PDF files.

- A. Run SQL Server Management Studio.
- B. Create a new database.

Right click the Database folder in the Object Explorer and select New Database. Type your Database name and click OK.

- C. Create a table.

Right click the Table folder in the new database and select New Table.

- D. Complete the details in the "Column Name" column, the "Data Type" column, "Length" column, and "Allow Nulls" column.

Foxit PDF IFilter indexes PDF files in SQL Server based on your specified column names. For example, you may add some fields for PDF files as below:

Column Name	Data Type	Allow Nulls
PdfText	varbinary(MAX)	<input checked="" type="checkbox"/>
Ext	nvarchar(50)	<input checked="" type="checkbox"/>
PdfID	int	<input type="checkbox"/>
		<input type="checkbox"/>

PdfText: stores binary PDF files, whose data type should be varbinary(MAX).

Ext: stores the file extension of PDF files. It's set as ".pdf" in this example. For more information, please refer to <http://technet.microsoft.com/en-us/library/ms142499.aspx>

PdfID: designates a unique ID for each PDF file, which will act as the return value when you're trying to search PDFs.

Note:

The example of the table above is applied for Microsoft SQL Server in this manual.

E. Click **Save** button and enter a name for the table.

2. Install Foxit PDF IFilter.

- A. Download Foxit PDF IFilter installation pack by the given link in the sales email after purchasing the license. Also, you could get the 30-day trial version of Foxit PDF IFilter from Foxit Website (<http://www.foxitsoftware.com>).
- B. Run the Foxit PDF IFilter Setup and follow the steps to complete the installation on your server.

Notes:

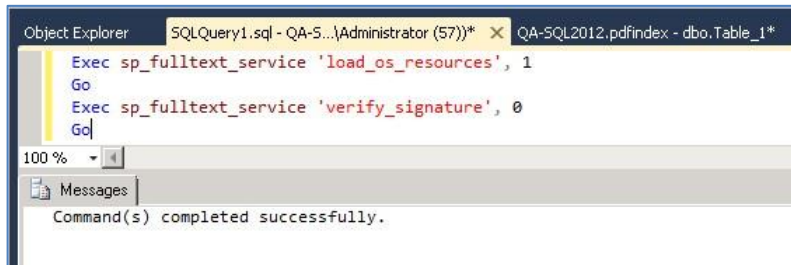
- *Foxit PDF IFilter appears in the program list after installation.*
- *Foxit PDF IFilter has no user interface.*
- *The installer will unzip an add-on called `fpdfcjk.bin` into the installation folder. This add-on will help index PDF documents containing the Chinese/Japanese/Korean characters.*

3. Register Foxit PDF IFilter.

After the installation of Foxit PDF IFilter, it asks to register Foxit PDF IFilter.

- A. Click the “Database Engine Query” button on the toolbar, and execute the following command to register Foxit PDF IFilter:

```
Exec sp_fulltext_service 'load_os_resources', 1
Exec sp_fulltext_service 'verify_signature', 0
```



- B. The message “**Command(s) completed successfully.**” means you have registered Foxit PDF IFilter successfully.
4. **Restart the server, or you can stop and start SQL server and the Full-text Search engine by right-clicking them.**

For SQL Server 2012/2008:

- A. Click **Start > Programs > Microsoft SQL Server 2012/2008 > Configuration Tools > SQL Server Configuration Manager.**



- B. In the pop-up SQL Server Surface 2012/2008 Area Configuration dialog box, please select Surface Area Configuration for Services and Connections.
- C. Select MSSQLSERVER > Service > click Stop button and then Start button.
- D. Select Full-Text Search > Service > click Stop button and then Start button.

For SQL Server 2005:

- A. Click **Start > Programs > Microsoft SQL Server 2005 > Configuration Tools > SQL Server Surface Area Configuration.**
- B. In the pop-up SQL Server Surface 2005 Surface Area Configuration dialog box, please select Surface Area Configuration for Services and Connections.
- C. Select MSSQLSERVER > Service > click Stop button and then Start button.

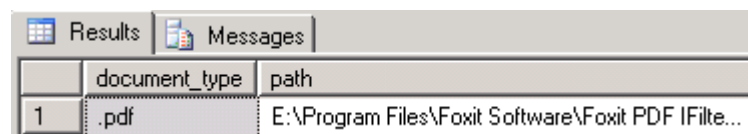
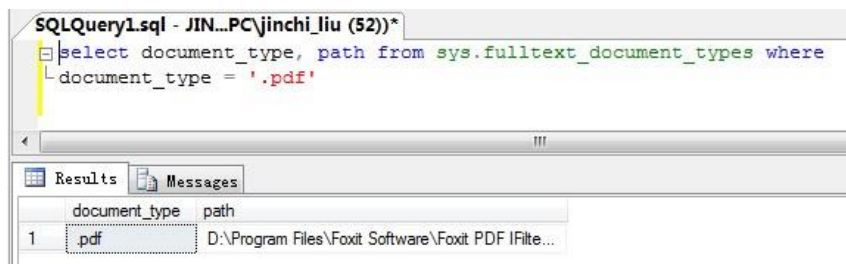
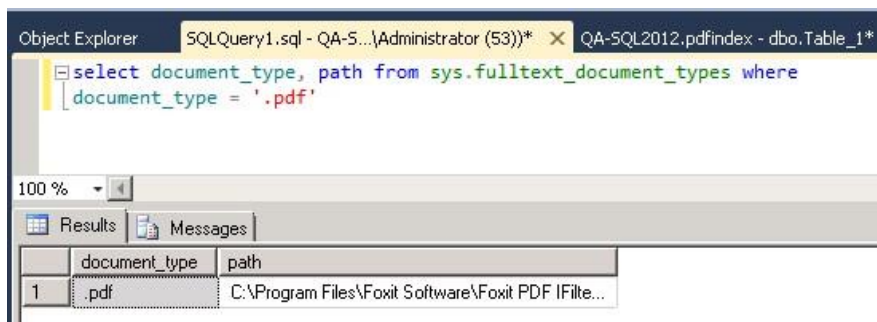
D. Select Full-Text Search > Service > click Stop button and then Start button.

5. Confirm the registration.

A. To check if PDF document type has been associated to Foxit PDF IFilter, execute the following commands.

```
select document_type, path from sys.fulltext_document_types where
document_type = '.pdf'
```

B. Check the result under the **Results** tab. Check the results to confirm success visually.



Note:

To update and uninstall Foxit PDF IFilter, please refer to [Updating Foxit PDF IFilter](#) and [Uninstalling Foxit PDF IFilter](#).

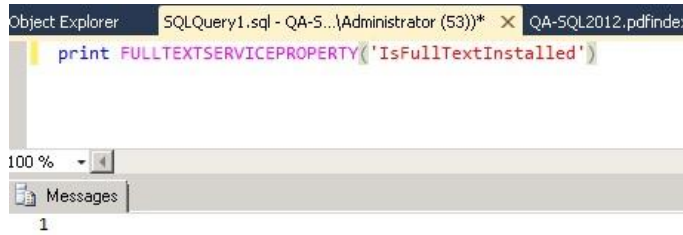
Setting up full-text search

To set up full-text search, you should take the following steps.

1. Confirming the Full-text search service.

- A. Launch Microsoft SQL Server Management Studio and execute the following command.

```
print FULLTEXTSERVICEPROPERTY('IsFullTextInstalled')
```



- B. Check the result by the returned value.

1	= Full-Text installed
0	= Full-Text not installed
Null	= invalid input, or error

2. Installing Full-Text component and service.

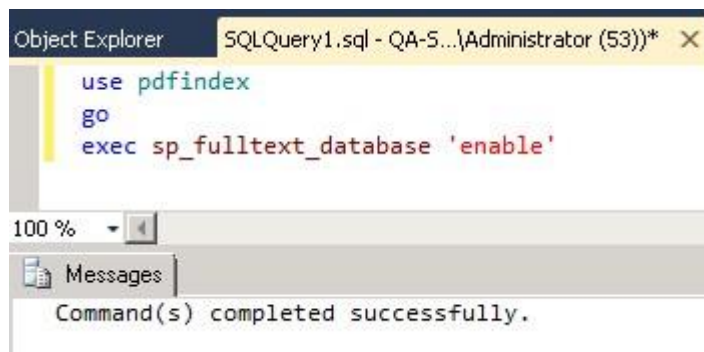
3. Enabling Full-Text indexing

In order to use Full-Text indexing function, you must first check if it has been enabled.

To enable Full-text indexing, please use one of the following two methods.

- Launch Microsoft SQL Server Management Studio. Right-click the database you have created > select Properties > choose Files tab > check “**Use full-text indexing**” > OK.
- Execute the following command:

```
exec sp_fulltext_database 'enable'
```



```
SQLQuery1.sql - JIN...PC\jinchi_liu (58))* JINCHI_LIU-PC.p
Use pdfindex
go
exec sp_fulltext_database 'enable'
```

Messages
Command(s) completed successfully.

4. Creating a full-text catalog to store full-text indexes.

Please execute the following command.

```
create fulltext catalog pdfCatalog
```

5. Creating a unique index.

- A. Open the table you have created > right click one of the column names > select “Set Primary Key”.

Column Name	Data Type	Allow Nulls
PdfText	varbinary(MAX)	<input checked="" type="checkbox"/>
Ext	nvarchar(50)	<input checked="" type="checkbox"/>
PfID	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
PdfText	varbinary(MAX)	<input checked="" type="checkbox"/>
Ext	nvarchar(50)	<input checked="" type="checkbox"/>
PfID	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
PdfText	varbinary(MAX)	<input checked="" type="checkbox"/>
PfId	int	<input type="checkbox"/>
Ext	nchar(10)	<input checked="" type="checkbox"/>

- B. Execute the following command:

```
create unique index ui_pdfIndex on dbo.pdfTable(PdfId)
```


6. Create a full-text index

For SQL Server 2012/2008

Right-click the table you have created > choose “Full Text Index” > set for it with all the default value. Please note the “PdfText” should be checked in **Available Columns** and “Ext” should be selected in **Type Column**.

For SQL Server 2005

Execute the following command:

```
create fulltext index on dbo. pdftable
(
PdfText – Please assign the column name for full-text index.
)
key index ui_pdfIndex on pdfCatalog
with change_tracking auto
```

Uploading PDFs

1. To upload PDF files to Microsoft SQL Server, please write a segment of codes.

You could also copy the following example.

For SQL Server 2012/2008

```
using System;

using System.Collections.Generic;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
namespace WebApplication1
{
    public partial class _Default : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            //Create a byte[] from the input file
            int len = FileUpload1.PostedFile.ContentLength;
            byte[] PdfText = new byte[len];
            FileUpload1.PostedFile.InputStream.Read(PdfText, 0, len);
        }
    }
}
```

```

// Insert the image and comment into the database
//SqlConnection connection = new
SqlConnection(@"server=QA-SQL2012;database=QA-2012;uid=Administrator;pwd=");
SqlConnection connection = new SqlConnection(@"Integrated Security=SSPI;Persist
Security Info=False;Initial Catalog=pdI;Data Source=QA-SQL2012");
try
{
connection.Open();
SqlCommand cmd = new SqlCommand("insert into Table_1" + "(PdfText, PdfId, Ext)
values (@PdfText, @PdfId, @Ext)", connection);
// Insert values into the three columns.
cmd.Parameters.Add(new SqlParameter("@PdfText", PdfText));
cmd.Parameters.Add(new SqlParameter("@PdfId",17));
// You can only upload a pdf file at a time.
cmd.Parameters.Add(new SqlParameter("@Ext", ".pdf"));
cmd.ExecuteNonQuery();
}
finally
{
connection.Close();
}
}
}
}

```

For SQL Server 2005

```

using System.Web.UI.HtmlControls;

using System.Data.SqlClient;
using System.IO;
public void OnUpload(Object sender, EventArgs e)
{
// Create a byte[] from the input file
int len = File1.PostedFile.ContentLength;
byte[] PdfText = new byte[len];
File1.PostedFile.InputStream.Read(PdfText, 0, len);
// Insert the image and comment into the database
SqlConnection connection = new
SqlConnection(@"server=IP address or server
name;database=pdfindex;uid=username;pwd=password");
try
{
connection.Open();
SqlCommand cmd = new SqlCommand("insert into pdftable "
+ "(PdfText, PdfId, Ext) values (@PdfText, @PdfId, @Ext)", connection);
// Insert values into the three columns.

```

```
cmd.Parameters.Add("@PdfText", PdfText);
cmd.Parameters.Add("@PdfId", 1);// You can only upload a pdf file at a time.
cmd.Parameters.Add("@Ext", ".pdf");
cmd.ExecuteNonQuery();
}
finally
{
    connection.Close();
}
}
```

2. Once if it succeeds, you will be prompted to upload your PDF files as below:

For SQL Server 2012



For SQL Server 2005

HtmlInputFile Example

Select File to Upload:

Save as file name (no path):

Note:

The codes above uses ADO.NET as the data access mechanism, and C# as the development language.

Starting a full population

After completing the steps above, you should start a full population for the uploaded PDFs. Actually, there are two ways under SQL Server 2012/2008/2005 to synchronize full-text indexes with their table data: Full Population and Incremental Population.

1. Full Population

A population when the index entries are built for all the rows in all the full-text

catalog's tables.

2. Incremental Population

A population only adjusts index entries for rows that have been added, deleted, or modified after the last population.

You may select to start a full population or an incremental population according to your needs.

1. To start a full population, right-click the table you created > Full-Text index > Start Full Population.
2. To start an incremental population, right-click the table you created > Full-Text index > Start Incremental Population.

Searching PDFs

After you finish indexing PDF files, you can start a search to find text within PDFs. Before you start a search, you have to verify if the full-text catalog or full-text index has been fully populated.

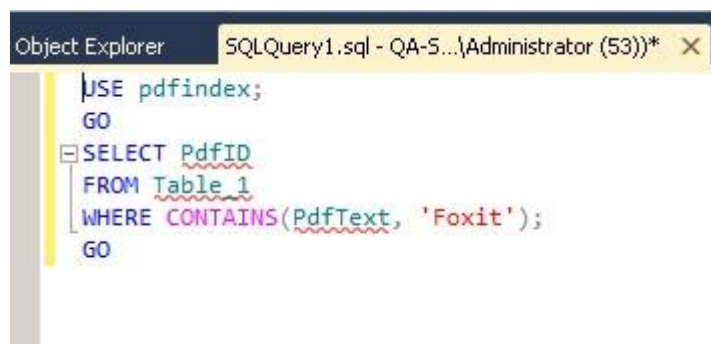
To check the population status, please execute the following command:

```
select fulltextcatalogproperty('PdfText','populatestatus')
```

You can start a search if the return value is 0.

To start a search, please execute the following command:

```
USE pdfindex;  
GO  
SELECT PdfID  
FROM Table_1  
WHERE CONTAINS(PdfText, 'Foxit');  
GO
```

A screenshot of a SQL query editor window. The window title is "SQLQuery1.sql - QA-5...Administrator (53)*". The editor shows the following SQL code:

```
USE pdfindex;  
GO  
SELECT PdfID  
FROM Table_1  
WHERE CONTAINS(PdfText, 'Foxit');  
GO
```

More help

For more information on how to work with Microsoft SQL Server, please refer to Microsoft SQL Server Help included in the product.

Chapter 5 - Foxit PDF IFilter for WSS

Foxit PDF IFilter can help search text in PDF files. After installing Foxit PDF IFilter, you should upload your PDF documents with Windows SharePoint Services (WSS) before you start searching.

Installing Foxit PDF IFilter

Foxit PDF IFilter has two versions respectively for 32-bit Windows and x64 Windows. You can choose one of them to install into your machine according to your system requirements. Before installing Foxit PDF IFilter, please note that Microsoft SharePoint Services 3.0 has been installed successfully.

To install Foxit PDF IFilter, please do the following:

- Download Foxit PDF IFilter from Foxit Website (<http://www.foxitsoftware.com>) onto the machine where you wish to install it.
- Run the Foxit PDF IFilter Setup program to install the IFilter.
- Add the following registry entry, and then set the registry entry value to pdf:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Shared Tools\Web Server
Extensions\12.0\Search\Applications\<GUID>\Gather\Search\Extensions\ExtensionList\38

Please do the following:

- Click **Start > Run**, type "regedit", and then click **OK**.
- In "Registry Editor" dialog box, locate and then click the following registry subkey:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Shared Tools\Web Server
Extensions\12.0\Search\Applications\GUID\Gather\Search\Extensions\ExtensionList
- On the **Edit** menu, point to **New**, and then click **String Value**.
- Type 38, and then press ENTER.
- Right-click the registry entry that you created, and then click **Modify**.
- In the **Value data** box, type pdf, and then click **OK**.
- Verify that the following two registry subkeys are present and that they contain the appropriate values.

Note: These registry subkeys and the values that they contain are created when you installed the Foxit PDF IFilter on the server.

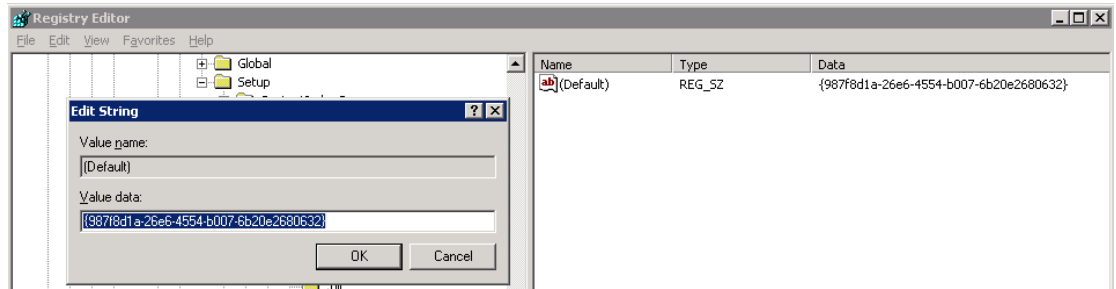
- Locate and click the following registry subkey:
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Shared Tools\Web Server Extensions\12.0\Search\Setup\ContentIndexCommon\Filters\Extension\pdf](#)

This registry subkey must contain the following registry entry:

Name: Default

Type: REG_SZ

Data: {987f8d1a-26e6-4554-b007-6b20e2680632}



- Locate and click the following registry subkey:
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Shared Tools\Web Server Extensions\12.0\Search\Setup\Filters\pdf](#)

This registry subkey must contain the following registry entries:

1) **Name:** Default

Type: REG_SZ

Data: (value not set)

2) **Name:** Extension

Type: REG_SZ

Data: pdf

3) **Name:** FileTypeBucket

Type: REG_DWORD

Data: 0x00000001 (1)

4) **Name:** MimeTypes

Type: REG_SZ

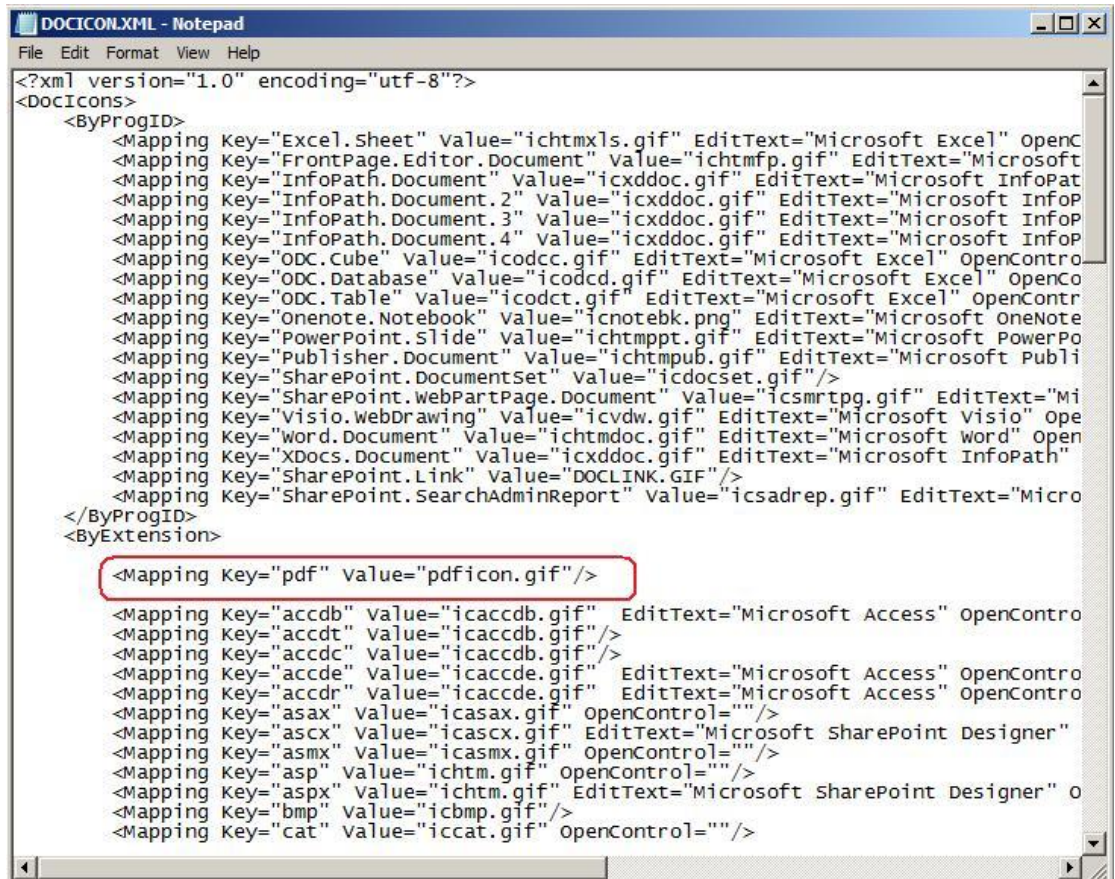
Data: application/pdf

Name	Type	Data
(Default)	REG_SZ	(value not set)
Extension	REG_SZ	pdf
FileTypeBucket	REG_DWORD	0x00000001 (1)
MimeTypes	REG_SZ	application/pdf

- Download PDF icon from <http://www.foxitsoftware.com/images/icons/pdficon.gif>.
- Copy the downloaded .GIF file to "Drive:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\Template\Images".

- Edit the file “Drive:\Program Files\Common Files\Microsoft Shared\Web server extensions\12\Template\Xml\DOCICON.XML”:
- Right-click DOCICON.XML file > click **Open With** > select **Notepad**.
- Add an entry for the .pdf extension. For example, where ICPDF is the name of the .gif file:

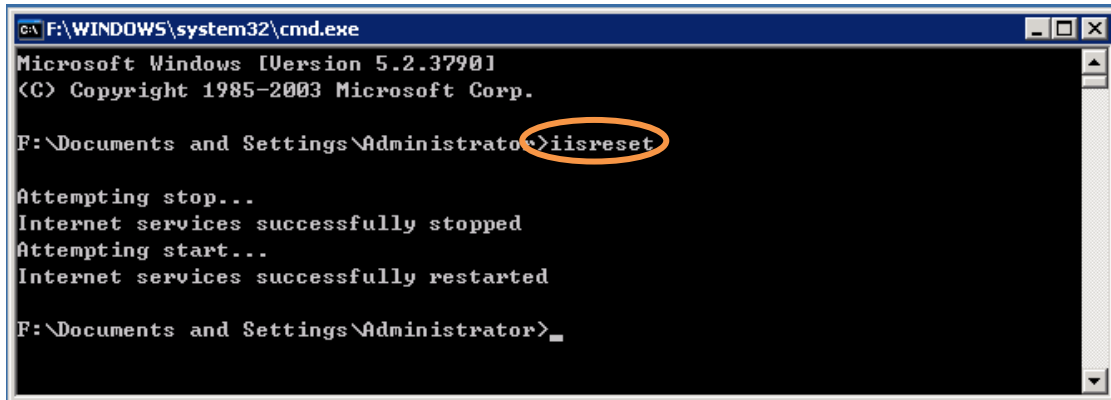
```
<Mapping Key="pdf" Value="pdficon.gif"/>
```



- On the **File** menu, click **Save**, and then quit Notepad.

Note: This directly changes the icons shown on the search result. Make sure this change takes effect in the appropriate server where search results are displayed i.e. any web front end (WFE) that supports user interfacing.

- Perform an iisreset:
 - Click **Start** > **Run** > type “cmd” in the **Open** line> click **OK** > type “iisreset” at the command prompt > hit **Enter**.



- Close the window.

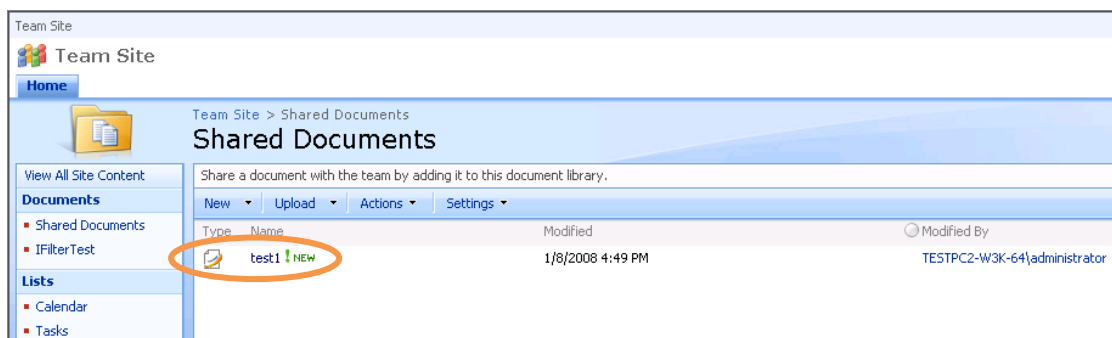
Note: In WSS2.0, Foxit PDF IFilter is installed on the computer which has SQL2005 server. In WSS3.0, Foxit PDF IFilter is installed on the computer which has WSS3.0.

Click to check the parts of [Updating Foxit PDF IFilter](#) and [Uninstalling Foxit PDF IFilter](#)

Uploading PDFs

To upload PDF files to Windows SharePoint Services 3.0, please do the following:

1. Open your **Windows SharePoint Services** site and click **Shared Documents**.
2. On the **Upload** menu, please click **Upload Document**.
3. Click the **Browse** button to upload a PDF document and click **OK**. When it has been uploaded, you will be returned to the Documents page where you will see that your PDF file has been uploaded.

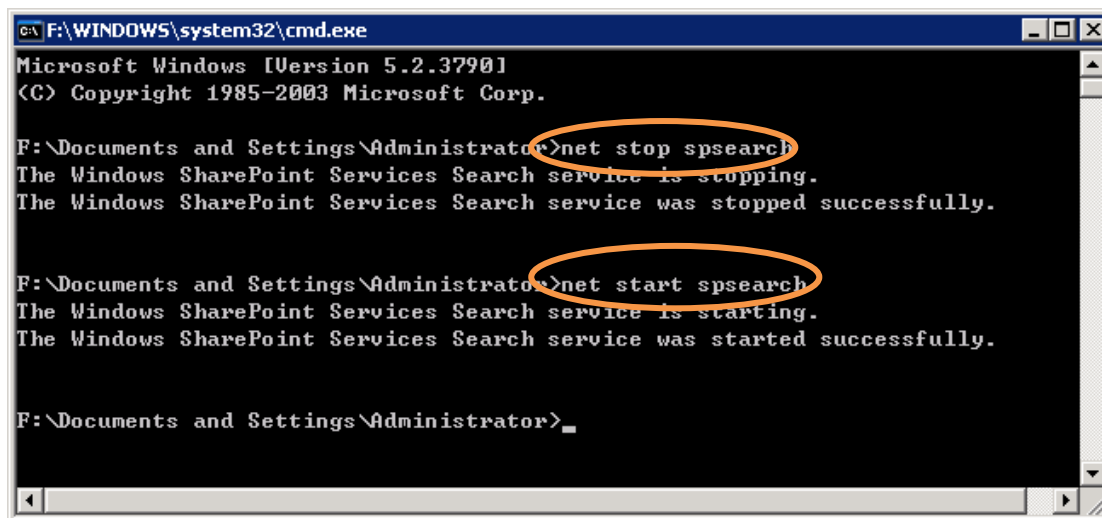


Uploading a PDF file

4. Stop and then start the Windows SharePoint Services Search service. Please do the following:

- Click **Start > Run**, type "cmd", and then click **OK**.

- Stop the Windows SharePoint Services Search service. To do this, please type "net stop spsearch" at the command prompt, and then press ENTER.
- Start the Windows SharePoint Services Search service. To do this, please type "net start spsearch" at the command prompt, and then press ENTER.
- Exit the command prompt.



```
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

F:\Documents and Settings\Administrator>net stop spsearch
The Windows SharePoint Services Search service is stopping.
The Windows SharePoint Services Search service was stopped successfully.

F:\Documents and Settings\Administrator>net start spsearch
The Windows SharePoint Services Search service is starting.
The Windows SharePoint Services Search service was started successfully.


F:\Documents and Settings\Administrator>
```

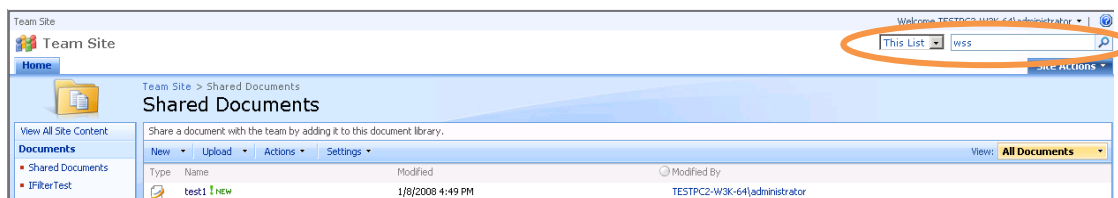
The command prompt

Searching PDFs

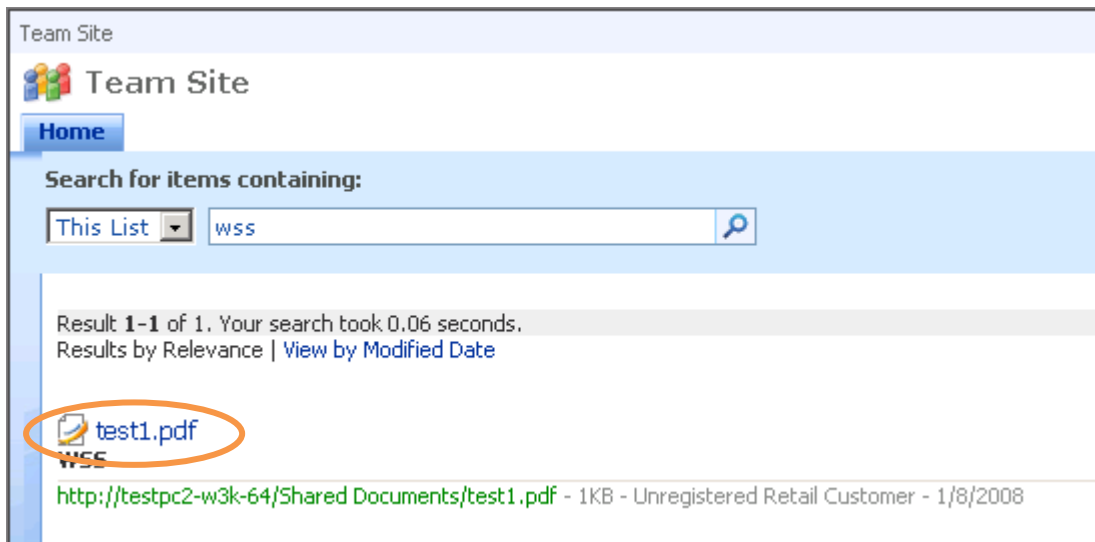
After you finish uploading PDF files, you can start a search to find text within PDF files. Also, you can search PDF document properties, such as author, title, etc.

To start a search, please perform the following:

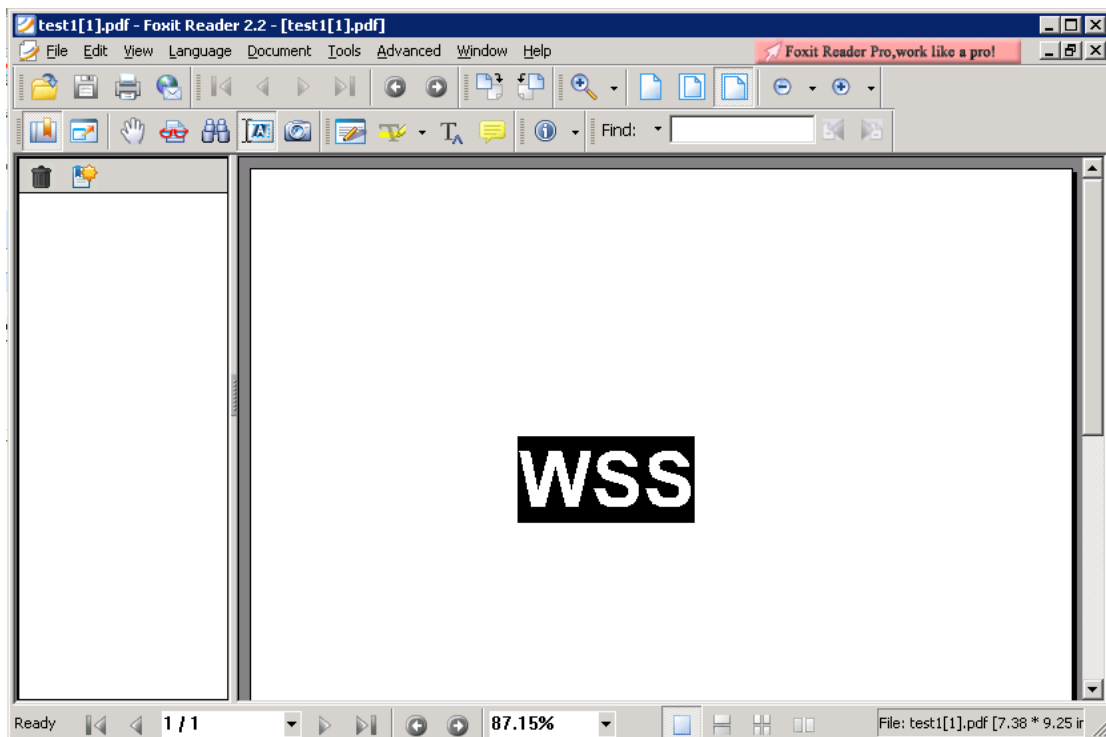
- Go to the **Shared Documents**, please type the text you want to search in the search box > and then click the **Search** button .



- You will see your search results. Click to open one of the PDF files.



Search results



Open one of the search results

Note: If the Windows SharePoint Services 3.0 Web site already had PDF documents before you installed the Foxit PDF IFilter on the server, you may have to perform an additional step. After you install and configure the Foxit PDF IFilter on the server, modify a property of the existing PDF documents on the server. For example, modify a metadata property such as the title, or upload the PDF documents to the Windows SharePoint Services Web site again. When you do this, the Windows SharePoint Services Search service crawls the existing PDF documents again.

More Help

For more information on how to work with Windows SharePoint Services (WSS), please refer to Windows SharePoint Services (WSS) Help included in the product.


Chapter 6 - Foxit PDF IFilter for Microsoft Exchange Server

Working in Exchange 2010

Modifying registry information

1. Install Foxit PDF IFilter on the platform where Exchange 2010 was installed.
2. Modify the registry information
 - 1) Click start > run > type regedit to open the Registry Editor (regedit)
 - 2) Locate the registry subkey through the following path:

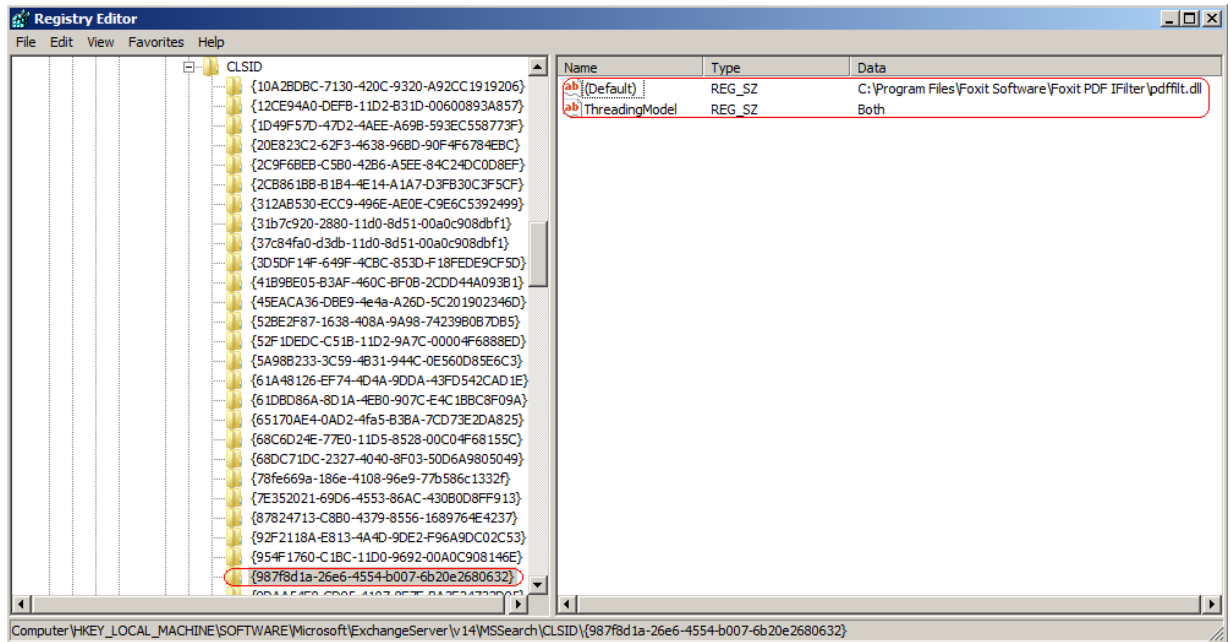
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\ExchangeServer\v14\MSSearch\CLSID\{987f8d1a-26e6-4554-b007-6b20e2680632}

Add the following string value to the subkey by double-clicking  (Default):

Subkey	Value
{987f8d1a-26e6-4554-b007-6b20e2680632}	Drive:\Program Files\Foxit Software\Foxit PDF IFilter\pdffilt.dll

- 3) Create the following string value in the subkey you modified in Step 2):

Value Name	Type	Value Data
ThreadingModel	String (REG_SZ)	Both



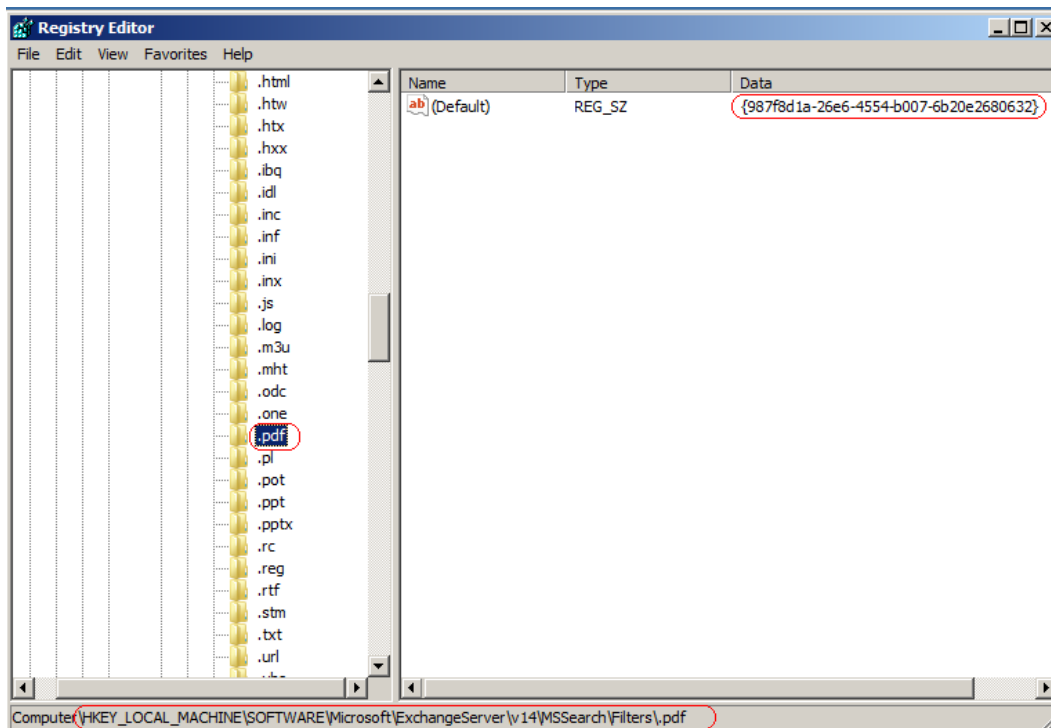
4) Locate the registry subkey through the following path:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\ExchangeServer\v14\MSSearch\Filters

Add the following string value to the subkey by double-clicking `(Default)`.

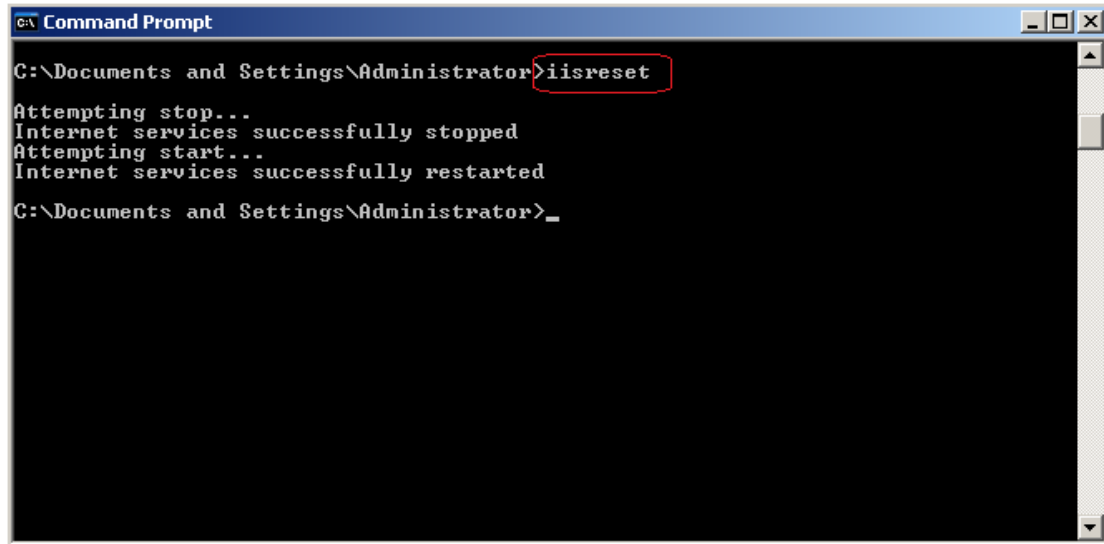
Subkey	value
.pdf	{987f8d1a-26e6-4554-b007-6b20e2680632}

Please refer to the following picture:



3. Please restart the Exchange Search service with following the step shown below:

1) Click Start > Run > type "cmd" > click OK > type "iisreset" in the command prompt window > press Enter.



```
CA Command Prompt
C:\Documents and Settings\Administrator>iisreset
Attempting stop...
Internet services successfully stopped
Attempting start...
Internet services successfully restarted
C:\Documents and Settings\Administrator>_
```

2) Restart the Microsoft Search (Exchange) Service through the services console or type the following commands in the Exchange Management Shell.

```
Stop-Service msftesql-Exchange -Force
Start-Service MExchangeSearch
```

Indexing PDF attachments

1. Start 'services.msc'.
2. Restart MExchange Information Store service.
3. Create an index by executing the following command in the Exchange Management shell.

```
ResetSearchIndex.ps1 -force -all
```

After the system completes the indexing, the result will be saved in the same location with Mailbox database.

```

Machine: EX01.cpanidl.com
Show full output for a cmd: <cmd> ! Format-list
Tip of the day #7:
CTRL+C is the equivalent of the hard-break command in the Exchange Management Shell. If a command is taking too long to run or you want to cancel an operation quickly, press CTRL+C to stop execution.
VERBOSE: Connecting to EX01.cpanidl.com
VERBOSE: Connected to EX01.cpanidl.com
[PS] C:\Windows\system32> cd $env:exchangeinstallpath\Scripts
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts> .resetSearchIndex.ps1 -force -all
WARNING: Waiting for service 'Microsoft Exchange Search Indexer (MSExchangeSearch)' to finish stopping...
WARNING: Waiting for service 'Microsoft Exchange Search Indexer (MSExchangeSearch)' to finish stopping...
WARNING: Waiting for service 'Microsoft Exchange Search Indexer (MSExchangeSearch)' to finish stopping...
MSExchangeSearch service stopped
Deleting catalog for Mailbox Database 0280748605
removing: C:\Program Files\Microsoft\Exchange Server\U14\Mailbox\Mailbox Database 0280748605\CatalogData-ceb742d4-a34a-4848-b290-50102ea62f1f-b543ebc3-a677-49a2-7908-3a6d64542c64
MSExchangeSearch service started
[PS] C:\Program Files\Microsoft\Exchange Server\U14\Scripts>
    
```

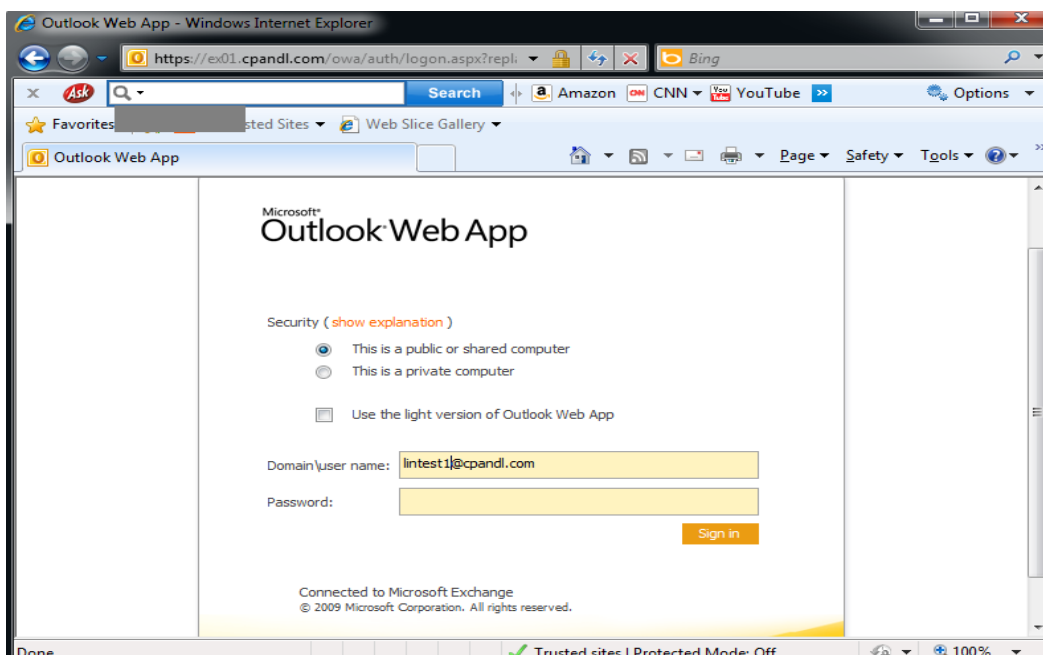
Alternatively, you can use the resetSearchIndex.ps1 script. This PowerShell script accepts the name of the database you want to work with as an input parameter. As shown above, to get started, enter cd \$env:exchangeinstallpath\Scripts, then run the script by entering .resetSearchIndex.ps1 which is followed by the name of the database, i.e. \resetSearchIndex.ps1 EngineeringMailboxDb.

Searching PDFs

After finishing indexing PDF files, you can find the target PDF file with Foxit PDF IFilter by searching the text within PDF files or its properties, such as author, title, etc.

To search a PDF file, please perform the followings:

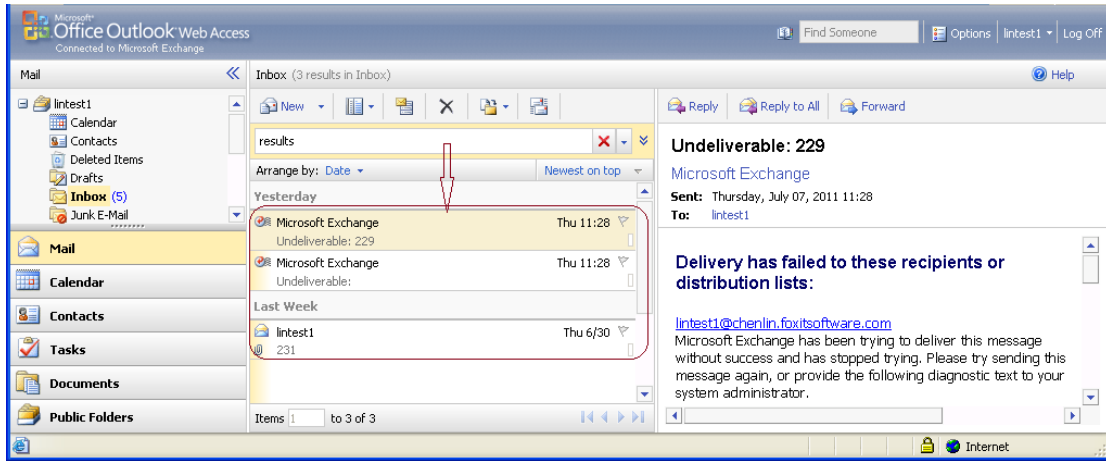
1. Visit the website <https://exchangepdf.com/owa> to open OWA (Outlook Web App). (i.e. https://ex01.cpanidl.com/owa)
2. Login the mailbox in which you want to search PDFs.



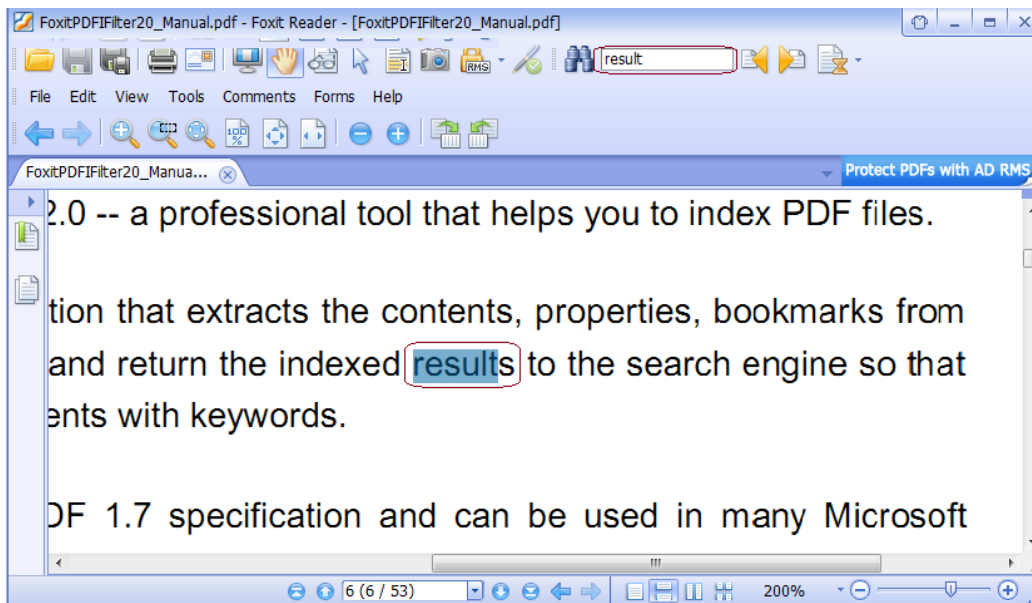
3. Please type the words you want to search in the search box, and then click the **Search**

button .

The PDFs that contain the search terms will be showed under the **Search** box.



4. Double-click to open the target PDF.



Work in Exchange 2007


Modifying the registry information of Foxit PDF IFilter

- a) Install Foxit PDF IFilter on the platform where Exchange 2010 was installed.
- b) Modify the registry information.

1) Click start > run...> type regedit to open the Registry Editor (regedit)

2) Locate the registry subkey through the following path:

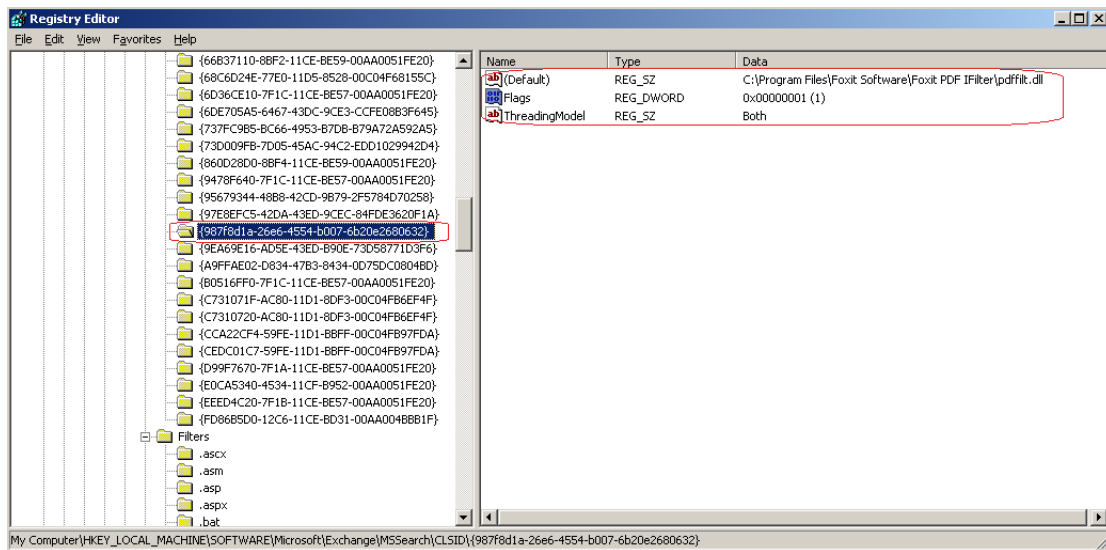
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Exchange\MSSearch\CLSID\

Add the following string value to the subkey by double-clicking  (Default):

Subkey	Value
{987f8d1a-26e6-4554-b007-6b20e2680632}	C:\Program Files\Foxit Software\Foxit PDF IFilter\pdffilt.dll


3) Create the following string value in the subkey you modified in Step 2):

Value Name	Type	Value Data
ThreadingModel	REG_SZ	Both
Flags	REG_DWORD	1



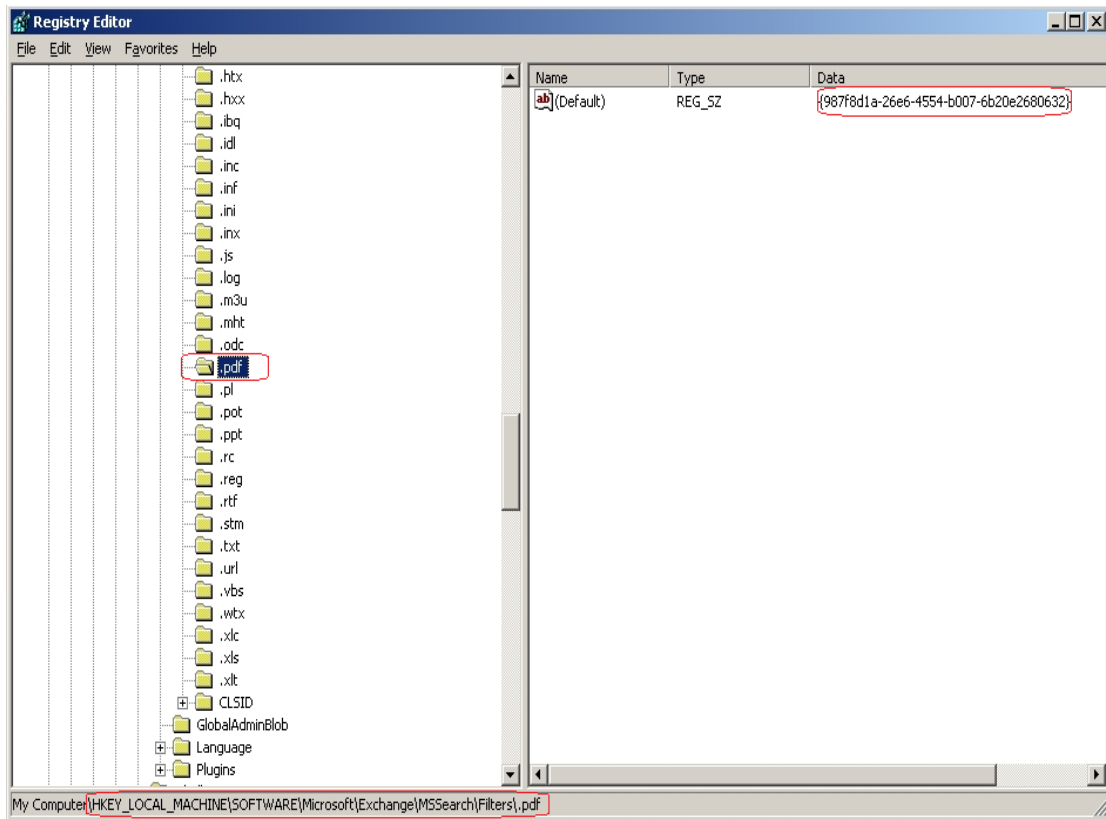
4) Locate the registry subkey through the following path:

HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Exchange\MSSearch\Filters.

Add the following string value to the subkey by double-clicking  (Default).

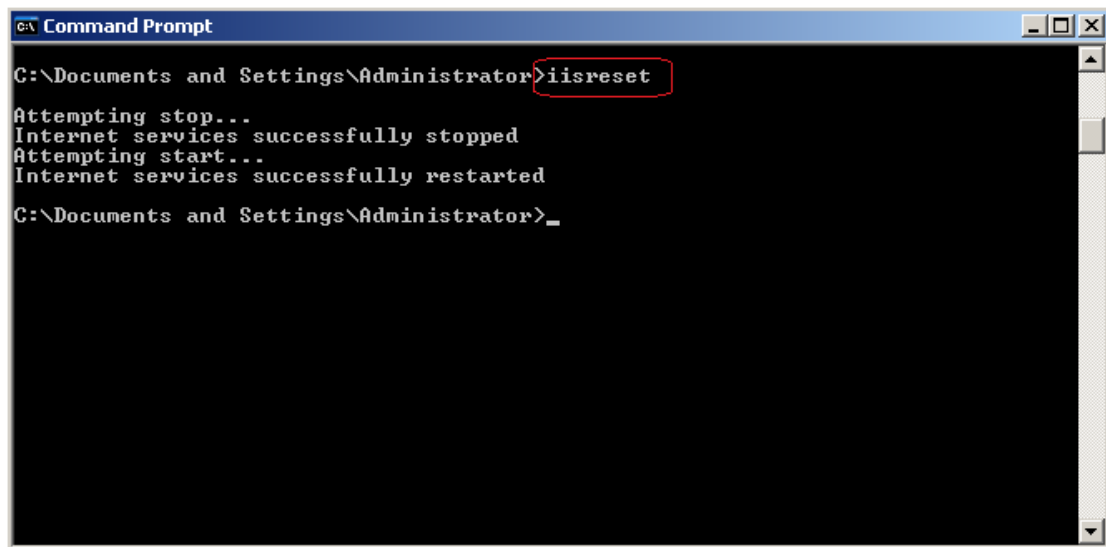
Subkey	value
.pdf	{987f8d1a-26e6-4554-b007-6b20e2680632}

Please refer to the following picture:



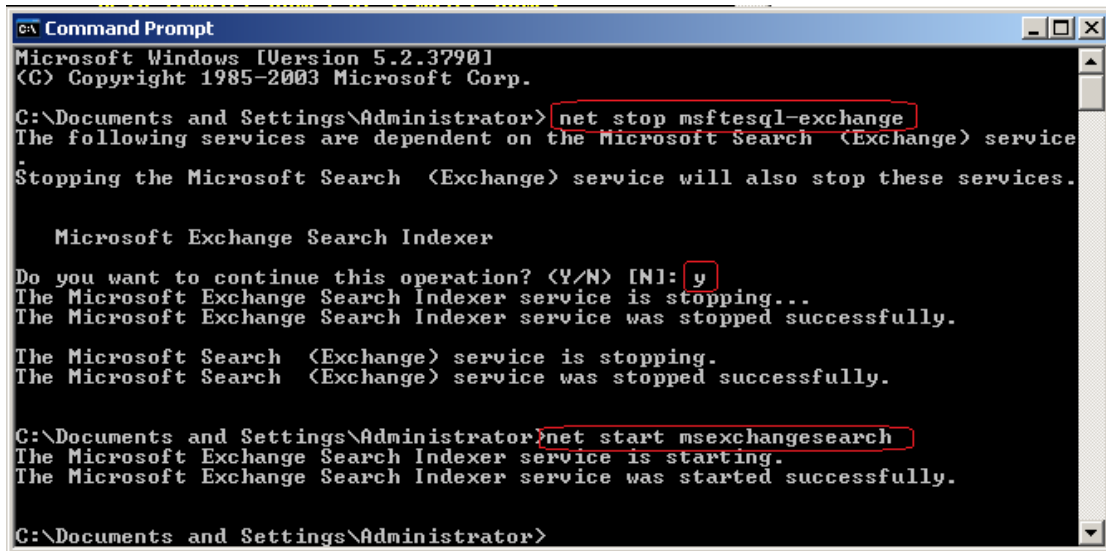
3. Please restart the Exchange Search Service with following the step shown below:

- 1) Click Start > Run > type "cmd" > click OK > type "iisreset" in the command prompt window > press Enter.



- 2) Restart the Microsoft Search (Exchange) service through typing the following commands in the command prompt window.

```
net stop msftesql-exchange
net start msexchangeindex
```

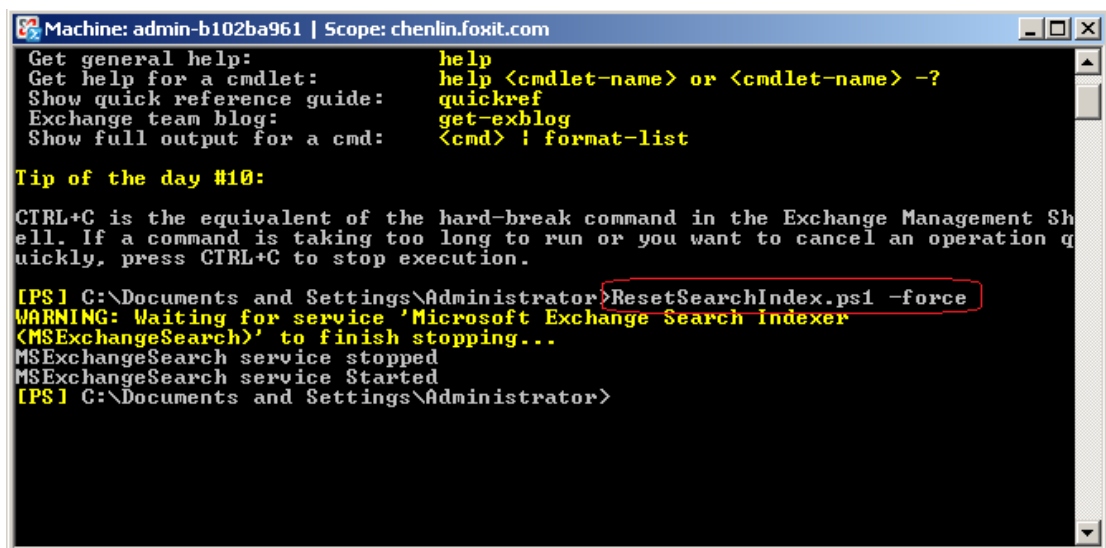


Indexing PDF attachments

1. Start 'services.msc'
2. Restart Microsoft Exchange Information Store service.
3. Create an index by executing the following command in the Exchange Management Shell.

ResetSearchIndex.ps1 -force

After the system completed the indexing, the result will be saved in the same location with Mailbox database.



Searching PDFs

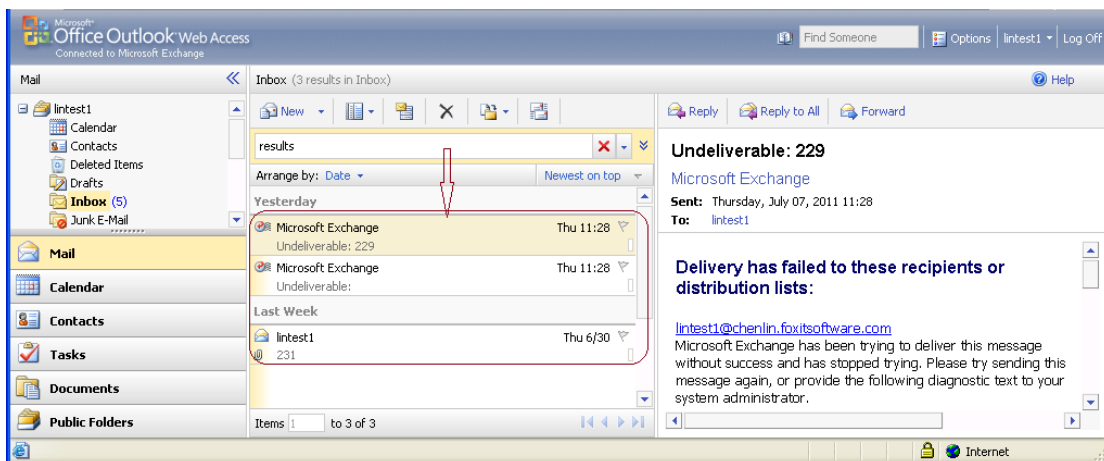
After finishing indexing PDF files, you can find the target PDF file with Foxit PDF IFilter by searching the text within PDF files or its properties, such as author, title, etc.

To search a PDF file, please perform the followings:

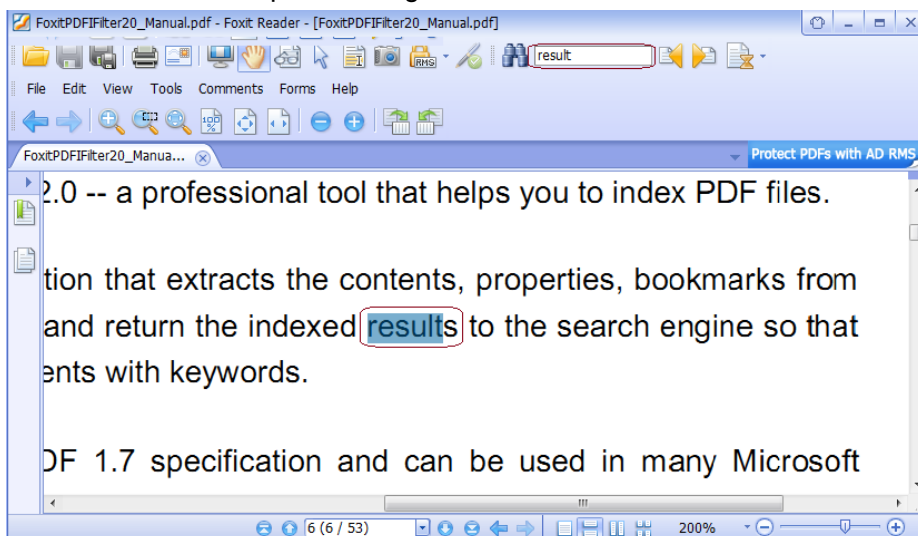
1. Visit the website <https://IP/owa/> (i.e. https:// 192.168.0.128/owa)
2. Click to open a category that contains the target PDF file.
3. Please type the words you want to search in the search box, and then click the

Search button .

The PDFs that contain the search terms will be showed under the **Search** box.



4. Double-click to open the target PDF.



Chapter 7 - Additional Information

Microsoft Developer Support

Foxit PDF IFilter is a Dynamic Link Library (DLL) file that provides a bridge between a Microsoft indexing client and a library of PDF files. It consists of code that understands the PDF Format as well as code that can interface with the indexing client. When an indexing client needs to index content from PDF files, it will look in its registry for an appropriate DLL and will find the Foxit PDF IFilter. Foxit PDF IFilter will return text to the indexing client. The indexing client will then index the results and return the appropriate results to the user.

Language Support

This section lists languages supported by Foxit PDF IFilter.

- German
- French
- Italian
- English
- Spanish
- Portuguese
- Russian
- Chinese (traditional and simplified)
- Korean
- Japanese
- Arabic
- Hebrew

Contact Us

Feel free to contact us should you need any information or have any problems with our products. We are always here, ready to serve you better.

- **Office Address:**
Foxit Corporation
42480 Christy Street. Suite 201
Fremont CA 94538
USA
- **Sales:**
[1-866-680-3668](tel:1-866-680-3668) (24/7)
- **Support:**
[1-866-MYFOXIT](tel:1-866-MYFOXIT) or [1-866-693-6948](tel:1-866-693-6948) (24/7)
- **Fax:**
510-405-9288
- **Website:**
www.foxitsoftware.com
- **E-mail:**
Sales and Information - sales@foxitsoftware.com
Technical Support - support@foxitsoftware.com
Marketing Service - marketing@foxitsoftware.com