

User Manual



Foxit PDF IFilter 2.0

Foxit

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Microsoft
GOLD CERTIFIED
Partner

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FOR FOXIT PDF IFILTER

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Chapter 1 - Overview

Welcome to Foxit PDF IFilter 2.0 -- a professional tool that helps you to index PDF files.

Foxit PDF IFilter is an application that extracts the contents, properties, bookmarks from PDF documents, index them, and return 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 index, 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 contains 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 multi-threading and takes full use of multiple-CPU in a server.

Chapter 2 - Getting Started

Installing Foxit PDF IFilter

- Download Foxit PDF IFilter from the Foxit Website (<http://www.foxitsoftware.com>). Foxit PDF IFilter has a 32-bit package and a 64-bit package. Please download accordingly
- Stop all appropriate clients.
- Uninstall any previous version of Foxit PDF IFilter.
- Make sure that Windows Desktop Search has been installed
- Double-click the downloaded Foxit PDF IFilter.msi file and follow the on-screen instructions.
- After installation completes, start all appropriate clients.

Notes:

1. *More installation steps are needed for SQL, WSS and Moss environments.*
2. *Foxit PDF IFilter appears in the list of programs on the Program Start Menu after installation.*
3. *Foxit PDF IFilter has no user interface.*

The installation package will unzip a language file called `fpdfcjk.bin` into the installation folder, which will help you to index PDF documents containing Chinese/Japanese/Korean characters.

Configuring Foxit PDF IFilter

Foxit PDF IFilter 2.0 adds four configurable registry items under “HKEY_LOCAL_MACHINE\SOFTWARE\Foxit Software\Foxit PDF IFilter” directory:

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

FilterAttachFile [REG_DWORD] – sets the value to decide 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 2.0 is to filter out bookmarks, but it doesn't filter out attachments and any log information either. Restart application if you made any changes to the registry.

Updating Foxit PDF IFilter

You need to uninstall the old version of Foxit PDF IFilter to install the new one. You do not have to reboot your machine after update.

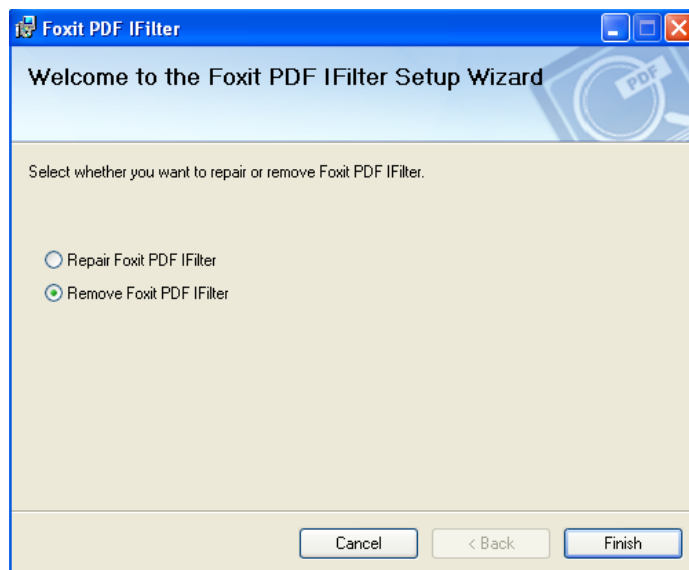
Foxit PDF IFilter consists of a core layer and an installation layer. When you upgrade the installation layer, you do not need to re-do a full index. But when you upgrade the core layer, you can decide if you need to rebuild index on your computer according to the importance of the updates by checking "What's New" on the Foxit Official Website.

Uninstalling Foxit PDF IFilter

- Open the Start Menu and select "Control Panel".
- Click on the "Add or Remove Programs" tab.
- Click on the "Foxit PDF IFilter" record and then on the "Remove" button to uninstall it.

Or you can double-click the Foxit PDF IFilter.msi setup file that you have used to install Foxit PDF IFilter, and do the following:

- In the Foxit PDF IFilter dialog box, select Remove Foxit PDF IFilter.



- Click the Finish button to uninstall.

Chapter 3 - Foxit PDF IFilter for WDS

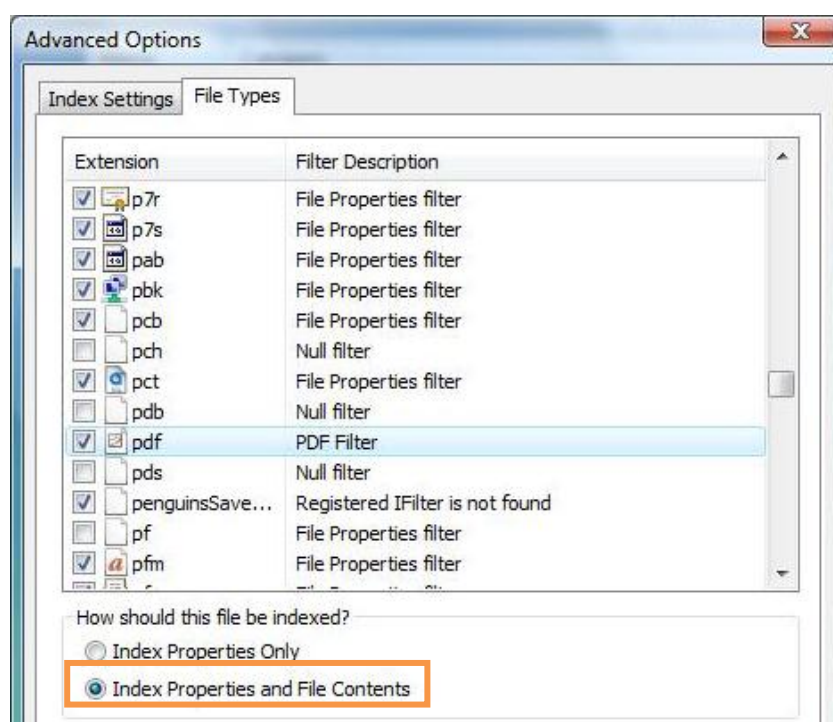
Foxit PDF IFilter is able to search text in PDF files, Email PDF attachments, and PDFs in Database Fields (BLOB), etc. After you install Foxit PDF IFilter, you should index all documents and re-build index data with Windows Desktop Search (WDS) before you start a search.

Working in Windows 7 and Windows Vista

WDS functionality is already built into Windows 7 and Windows Vista.

Indexing PDFs

With Foxit PDF IFilter, you can index PDF properties and file contents. After installing Foxit PDF IFilter, please note that “Index Properties and File Contents” will be selected automatically in File Types tab of Advanced Options dialog box.



The Advanced Options dialog box with Foxit PDF IFilter

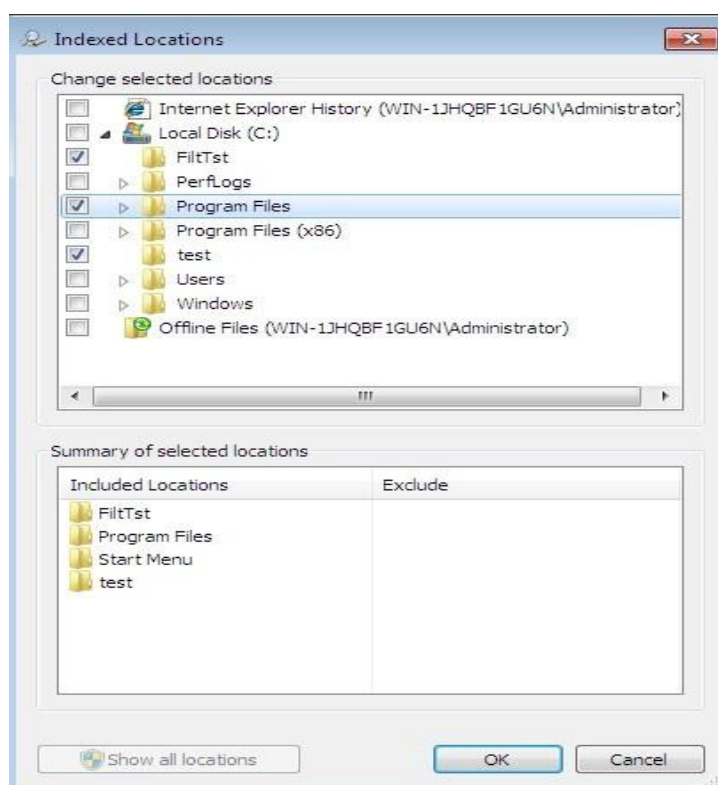
Note: Before installing the Foxit PDF IFilter, “Index Properties Only” is selected by default.

Setting index locations

You can have Microsoft Windows Desktop Search index any locations that contain PDF files. Once the index is complete, Windows Desktop Search is able to use this index to find text in PDF quickly. Please make sure all desired locations are included.

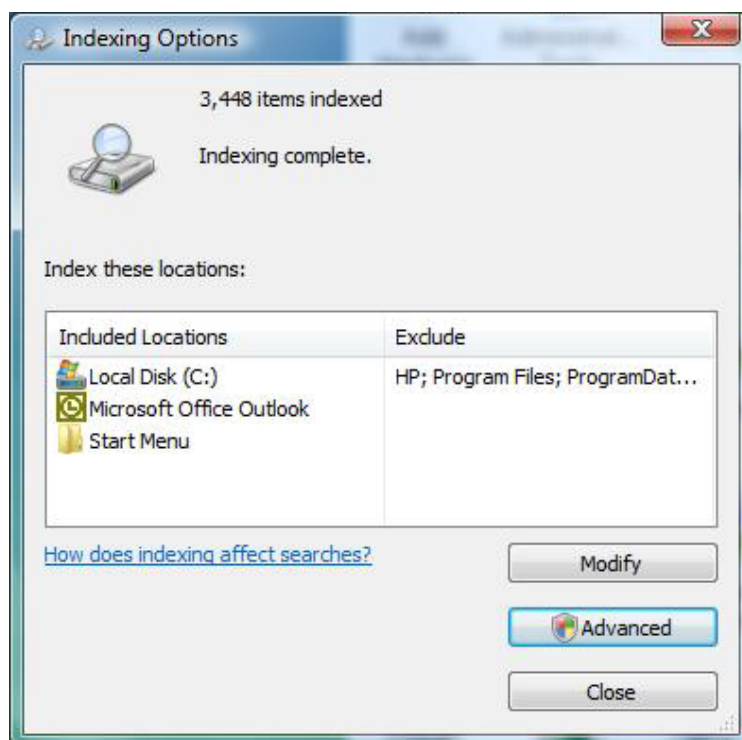
To select the locations where PDF files exist and you want to search, do the following:

- Select Start > Control Panel > Indexing Options to open the Indexing Options tool.
- Click the Modify button to add or subtract specific files/folders from the search index.
- In the Indexed Locations dialog box, select the locations that you want, and click OK.



Indexing selected items

Once you select the locations and click OK, Windows Desktop Search will start the indexing task automatically.



Indexing complete

Notes:

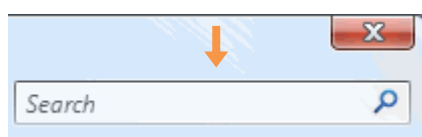
1. If you just installed Foxit PDF IFilter or the IFilter has just been upgraded, you'll have to index all documents and rebuild index data.
2. Windows Desktop Search updates the index every time that you add or change a file or an e-mail message. You don't need to re-index PDF files unless the IFilter is reinstalled or updated.

Searching PDFs

After you finish indexing PDF files, you can start a search for the contents and properties such as author, title, etc. of your files.

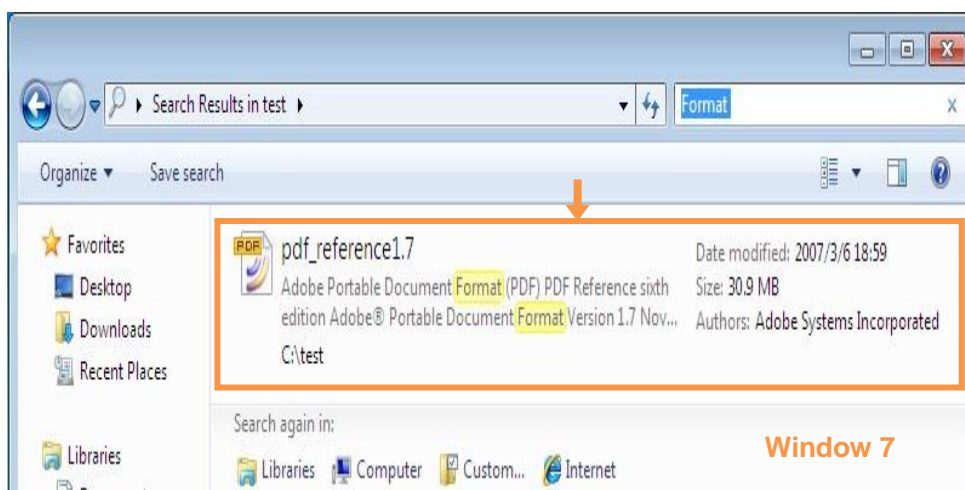
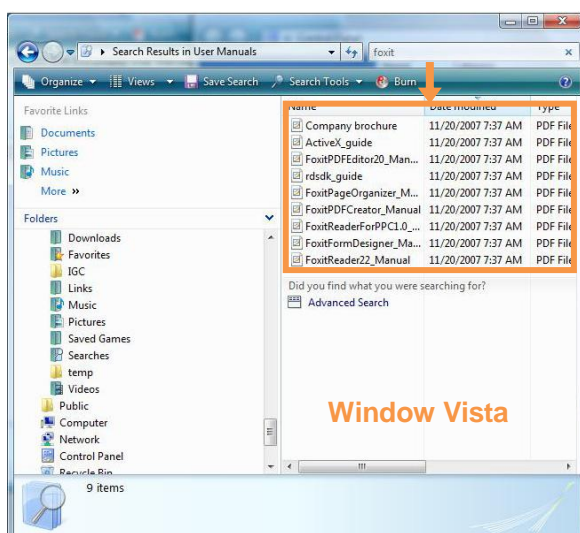
To start a search, do the following:

- Click to open a drive or a folder that contains the PDF file that you want to search.
- Type your search words in the search box at the top right corner of the window.



The search box

- Windows Desktop Results appear immediately as you type the search words.



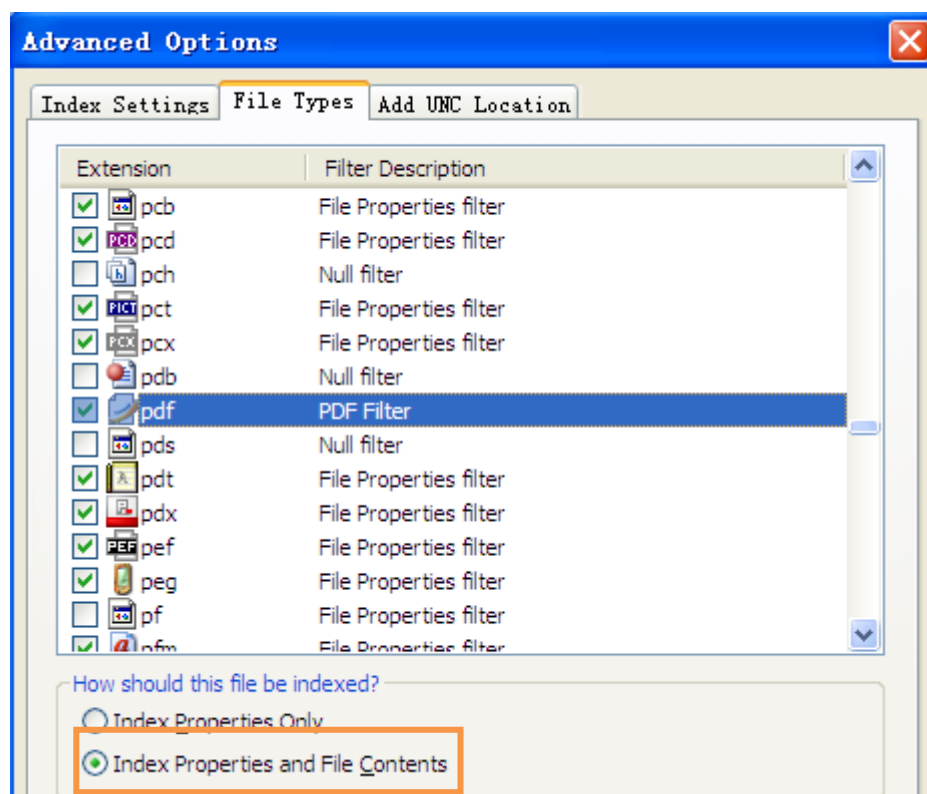
Search results

- Double-click one of the search results to open it with your default PDF Reader. You can select “How does indexing affect searches” in Indexing Options for more help.

Working in Windows XP and Other Operating Systems

Indexing PDFs

With Foxit PDF IFilter, you can index PDF properties and file contents. But before installing Foxit PDF IFilter, Index Properties Only is selected by default in File Types tab of Advanced Options dialog box.




The Advanced Options dialog box with Foxit PDF IFilter

Setting search locations

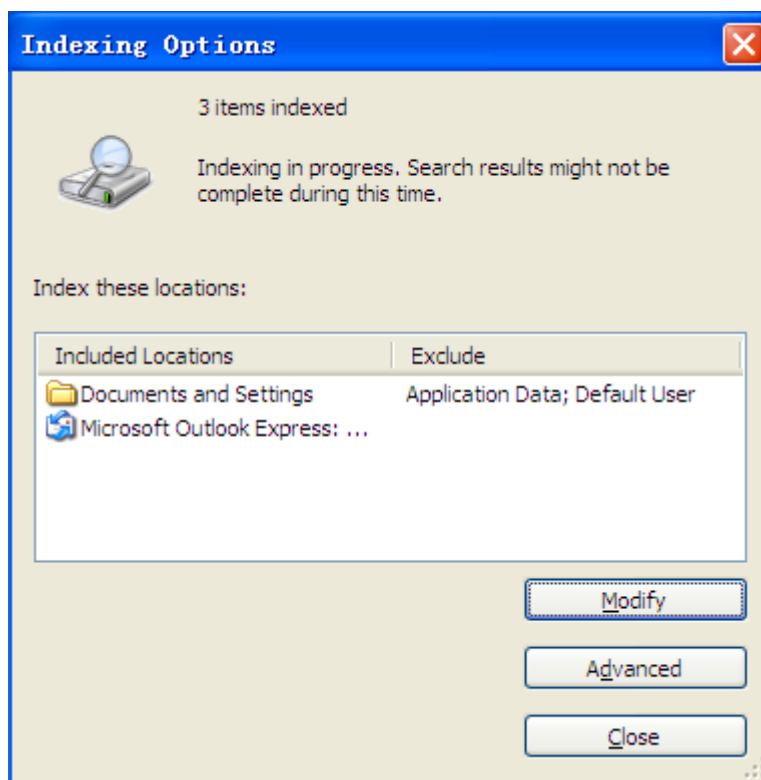
By default, Windows Desktop Search indexes your e-mail files and files saved in the My Documents folder. However, you can have Microsoft Windows Desktop Search index other locations.

To select the locations where PDF files exist and you want to search, do the following:


- Right-click the indexing icon  in the notification area of the Windows taskbar > click Windows Desktop Search Options > click the Modify button.
- In the Indexed Locations dialog box, select the locations that you want, and then click OK.


Indexing selected items

- Once you select the locations and click OK, Windows Desktop Search will start the indexing task.



Indexing in progress

- Or right-click the indexing icon  in the notification area of the Windows taskbar > click Index Now.

To check the indexing process, right-click the indexing icon  in the notification area of the Windows taskbar > click Indexing Status.

Notes:

1. *If you just installed Foxit PDF IFilter or the IFilter has just been upgraded, you'll have to index all documents and rebuild index data.*
2. *Windows Desktop Search updates the index every time that you add or change a file or an e-mail message, because of which, you don't need to re-index PDF files unless the IFilter is reinstalled or updated.*

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.

There are two search boxes for you to search PDF files – Desktop search box and Microsoft Windows Desktop search box in the main window of Windows Desktop Search.

Searching with deskbar search box

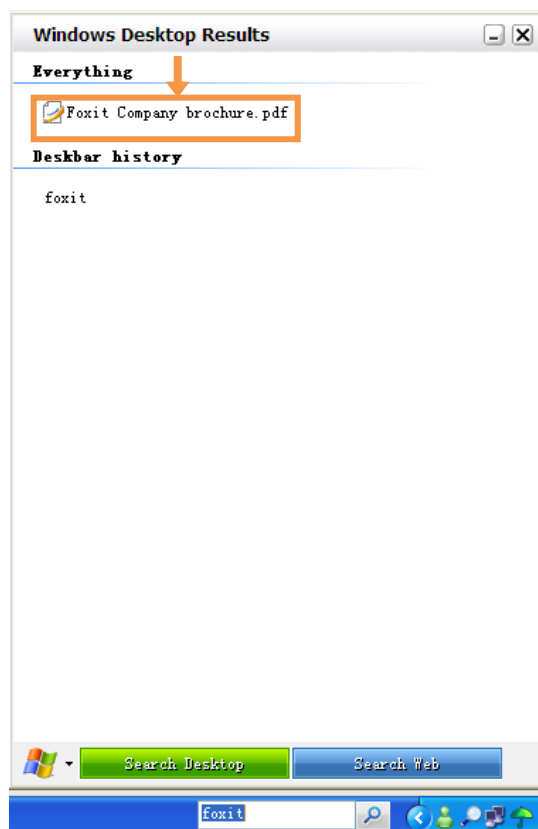
To start a search with deskbar search box, do the following:

- Type your search words in the Deskbar search box.



The search box



- Windows Desktop Results appear immediately as you type the search words.

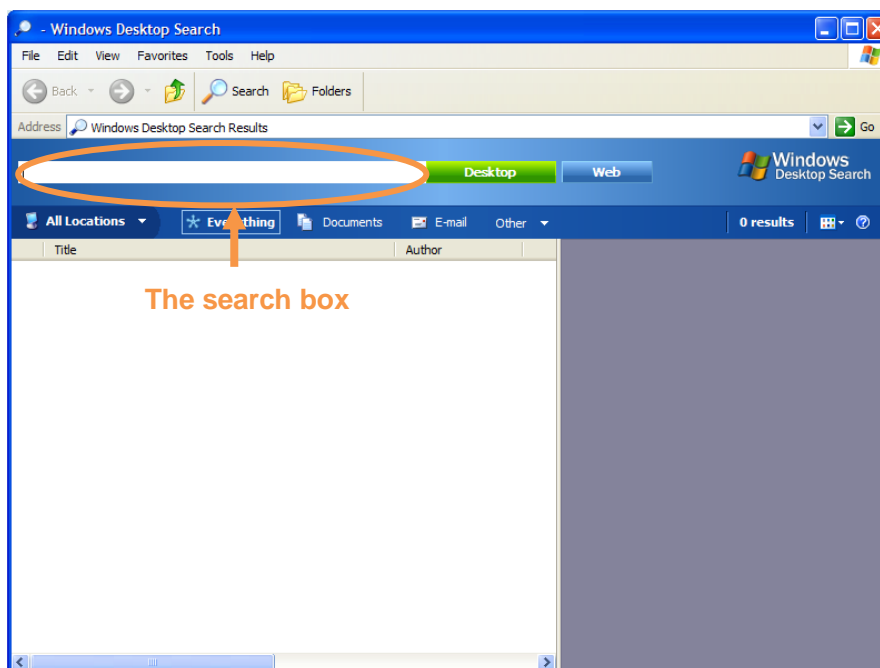


- Click one of the search results to open it with your default PDF Reader.

Searching with Microsoft Windows Desktop search box

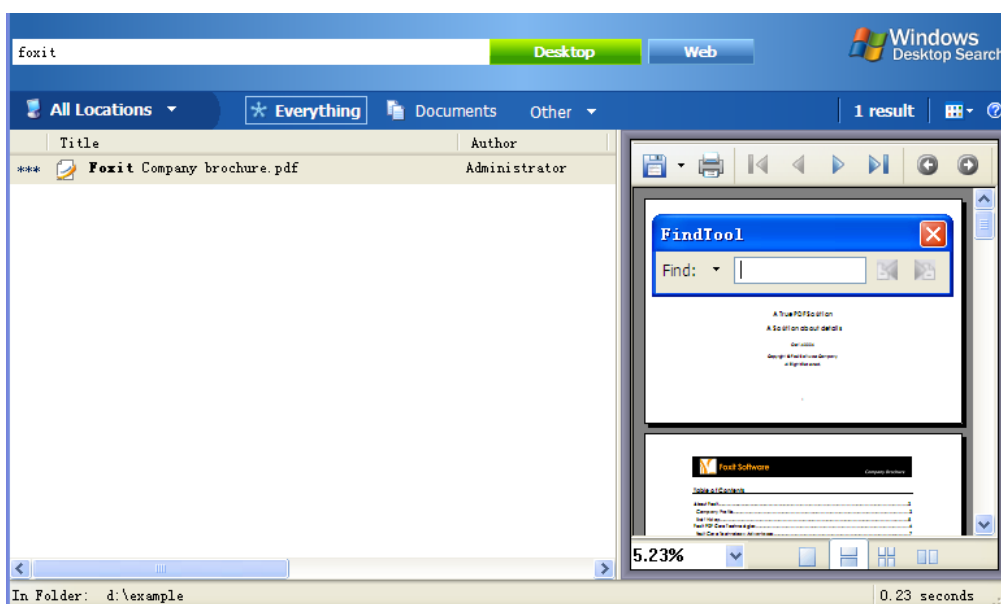
You can type either in the search box on the taskbar or the Microsoft Windows Desktop Search box in the main window of Windows Desktop Search.

- To open the main window of Windows Desktop Search, click the search icon  or select Search Now by right-clicking the indexing icon  in the notification area of the Windows taskbar.



The main window of Windows Desktop Search

- Type your search in the Microsoft Windows Desktop Search box in the main window of Windows Desktop Search > Press Enter to search your desktop, or click Web to search the web.
- Click one of the search results so that you can get a quick view in the preview pane.
- To search text in the preview pane, use Ctrl + F to activate FindTool dialog box.



More Help

For more information on how to work with Windows Desktop Search, please refer to Windows Desktop Search Help included in the product.

Chapter 4 - Foxit PDF IFilter for Microsoft SQL Server 2005

Foxit PDF IFilter is able to search text in PDF files. After you install Foxit PDF IFilter, you should upload your PDF documents and perform a full population with Microsoft SQL Server 2005 before you start a searching.

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 SQL Server 2005 has been installed successfully.

To install Foxit PDF IFilter 2.0, please do the following:

Step 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:

Table - dbo.Table_1*		Summary
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 in this manual.

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

Step 2, download and install Foxit PDF IFilter.

A. Download Foxit PDF IFilter from Foxit Website (<http://www.foxitsoftware.com>) onto the machine where you wish to install it.

B. Run the Foxit PDF IFilter 2.0 Setup program to install the filter on the server.

Notes:

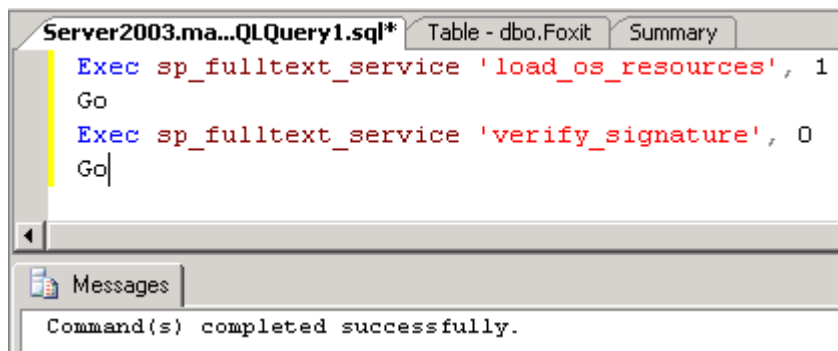
1. Foxit PDF IFilter appears in the list of programs on the Programs Start Menu after installation.
2. Foxit PDF IFilter has no user interface.
3. The installation package will unzip a language file called `fpdfcjk.bin` into the installation folder, which will help you to index PDF documents containing Chinese/Japanese/Korean characters.

Step 3, after the installation of Foxit PDF IFilter, execute the following commands to register Foxit PDF IFilter.

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

```
Exec sp_fulltext_service 'load_os_resources', 1
```

```
Exec sp_fulltext_service 'verify_signature', 0
```



The message “Command(s) completed successfully.” means you have registered Foxit PDF IFilter successfully.

Step 4, restart the server or stop and start SQL server and the Full-text Search engine.

A. Click Start > Programs > Microsoft SQL Server 2005 > Configuration Tools > SQL Server Surface Area Configuration.

B. In the pop-up SQL Server 2005 Surface Area Configuration dialog box, please click to select Surface Area Configuration for Services and Connections.

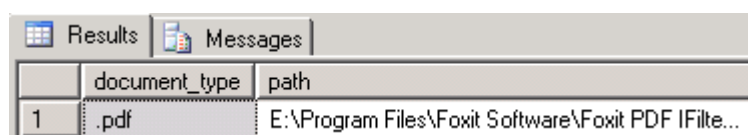
- C. Select MSSQLSERVER > Service, and click the Stop button and then Start.
- D. Select Full-Text Search > Service, and click the Stop button and then Start.

Step 5, confirm the registration.

Check for success with use of these commands to confirm that the pdf file type has an association to Foxit PDF IFilter:

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

Check the results to confirm success visually. For example,



	document_type	path
1	.pdf	E:\Program Files\Foxit Software\Foxit PDF IFilte...

Note: Click to check the parts of [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 in order:

1. Confirming the Full-text search service.

Please relaunch Microsoft SQL Server Management Studio, and execute the following command:

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

Results:

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 verify that Full-Text Indexing function has been enabled. To enable Full-text indexing, please do one of the following:

- 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'
```

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

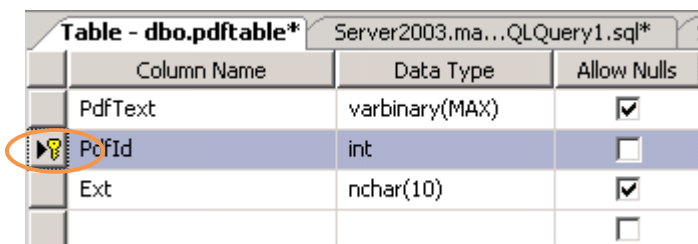
Please execute the following command:

```
create fulltext catalog pdfCatalog
```

5. Creating a unique index

Do the following:

- 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"/>
PdfId	int	<input type="checkbox"/>
Ext	nchar(10)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

- Execute the following command:

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

6. Create a full-text index

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
```

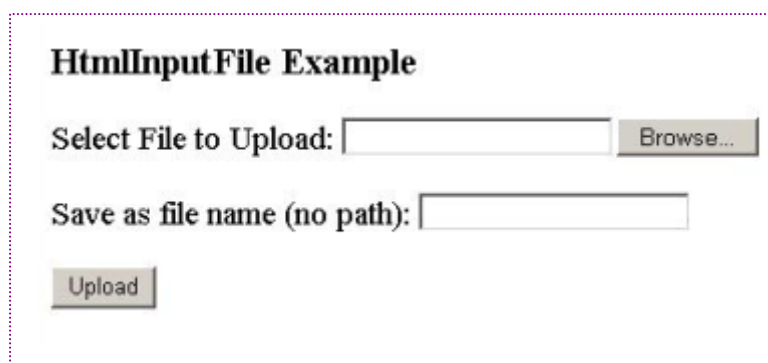
```
with change_tracking auto
```

Uploading PDFs

To upload PDF files to Microsoft SQL Server, you can either write a segment of codes or copy the codes below:

```
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();
    }
}
```

When you're done, you will be prompted to upload your PDF files as below:



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

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

Full Population - A population when the index entries are built for all the rows in all the full-text catalog's tables.

Incremental Population - A population which 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.

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

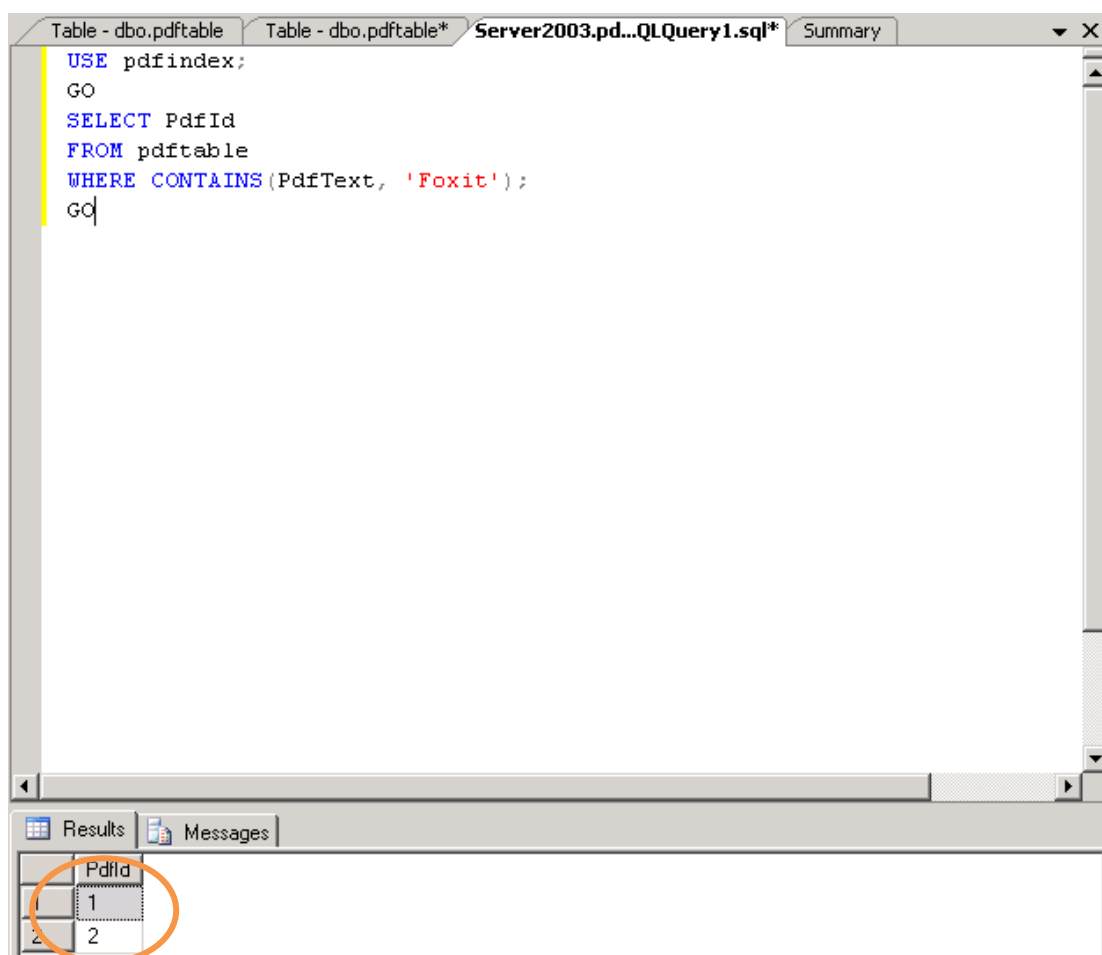
To check the population status, please execute the following command:

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

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

To start a search in SQL Server 2005, please execute the following command:

```
USE pdfindex;  
GO  
SELECT PdfId  
FROM pdftable  
WHERE CONTAINS(PdfText, 'Foxit');  
GO
```



More help

For more information on how to work with Microsoft SQL Server 2005, please refer to Microsoft SQL Server 2005 Help included in the product.

Chapter 5 - Foxit PDF IFilter for WSS

Foxit PDF IFilter is able to search text in PDF files. After you install 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 2.0, 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 2.0 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.

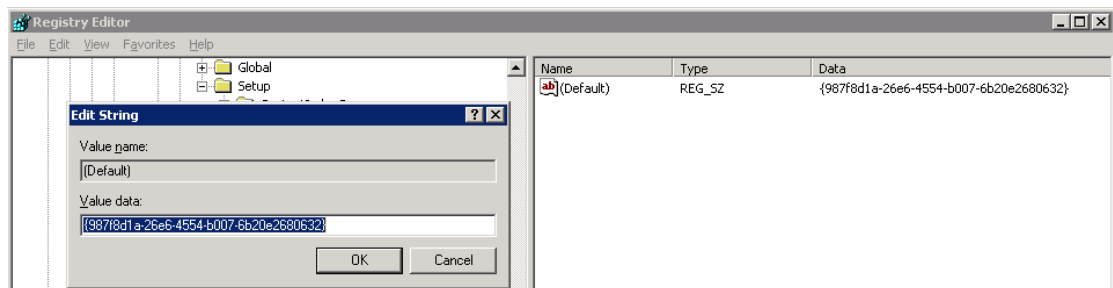
- Locate and click the following registry subkey:
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Shared Tools\Web Server Extensions\12.0\Search\Setup\ContentIndexCommon\Filters\Extension\pdf](#)

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

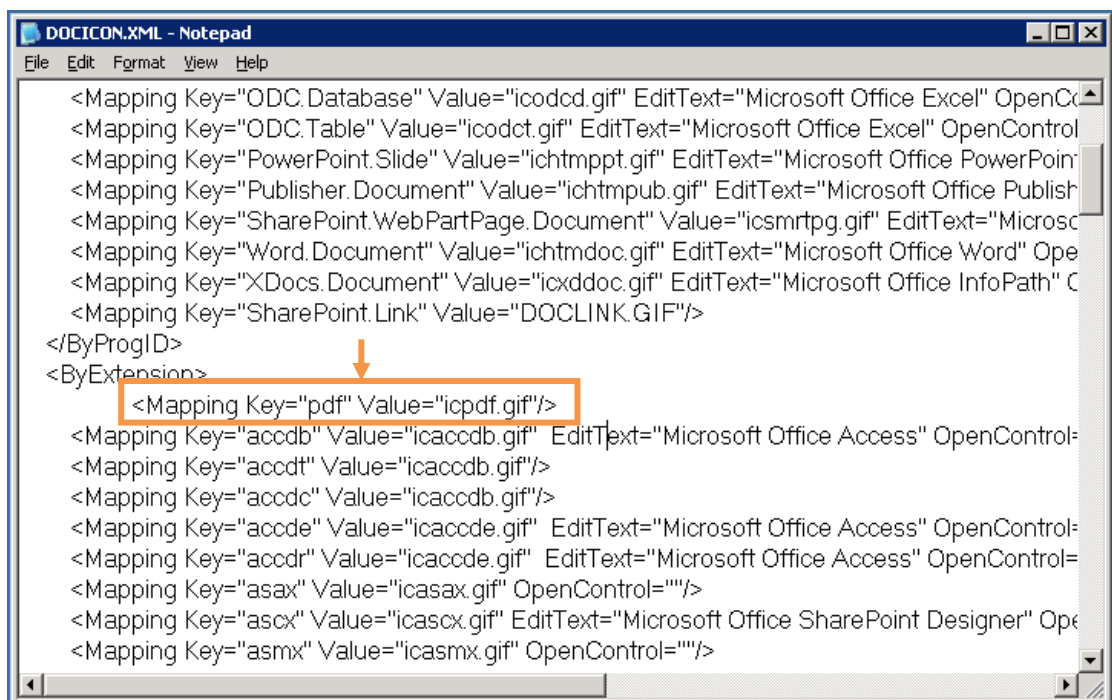
Data: application/pdf

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

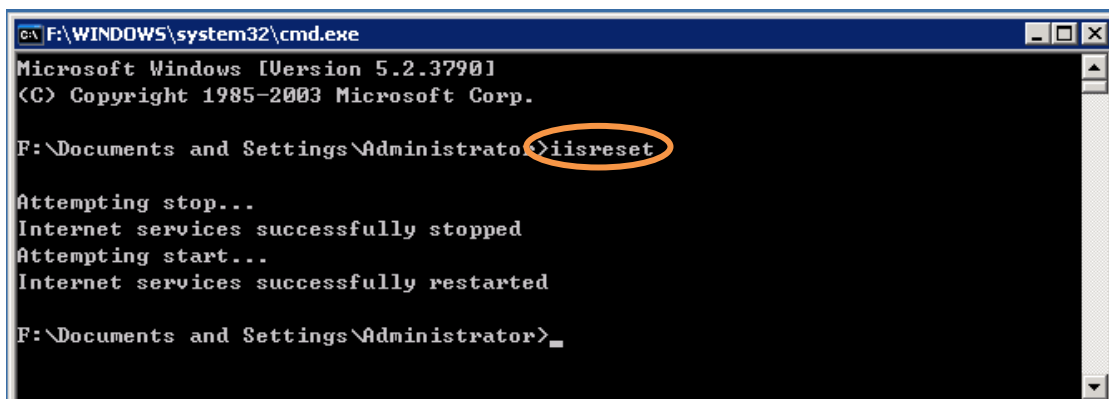
- Download PDF icon from <http://www.foxitsoftware.com/pdf/ifilter/icpdf.gif>.

- 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="icpdf.gif"/>
```



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

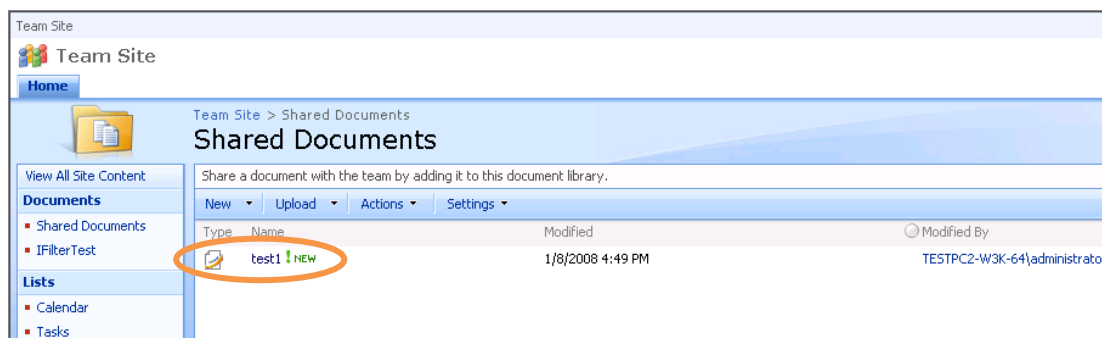
Note: In WSS2.0, Foxit PDF IFilter is installed on the computer which has SQL2005 server. In WSS3.0, Foxit PDF IFilter is installed on the computer which has WSS3.0.

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

Uploading PDFs

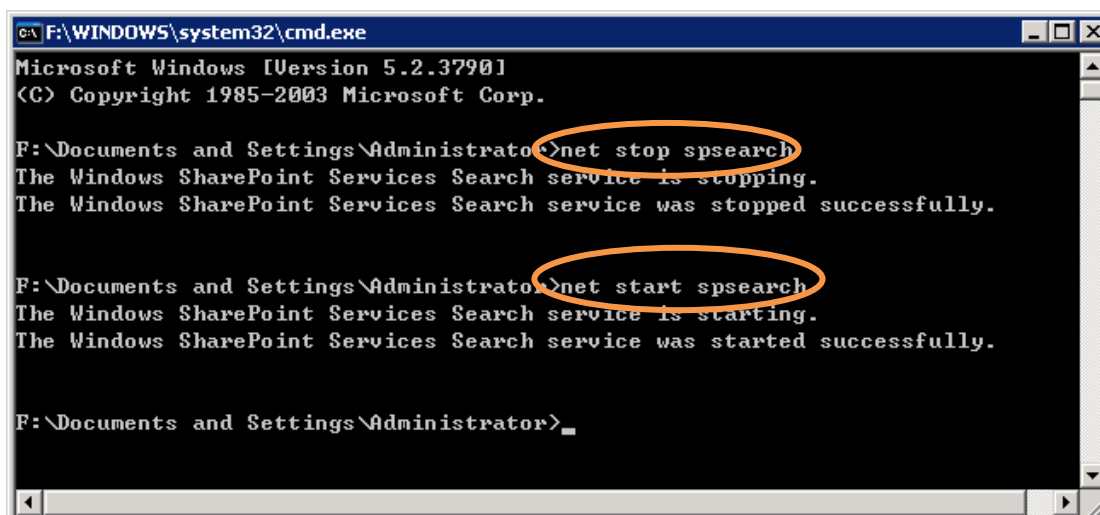
To upload PDF files to Windows SharePoint Services 3.0, please do the following:

1. Open you **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.



```
C:\F:\WINDOWS\system32\cmd.exe
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>
```

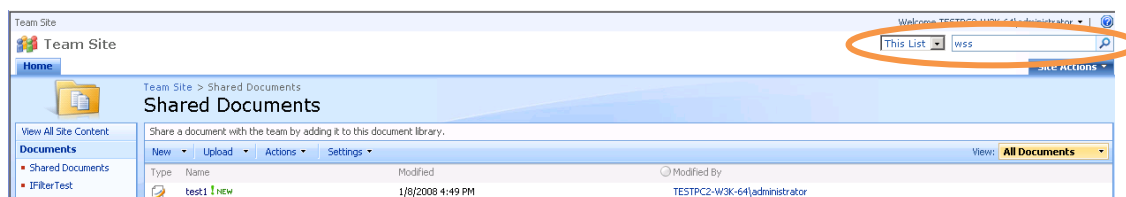
The command prompt

Searching PDFs

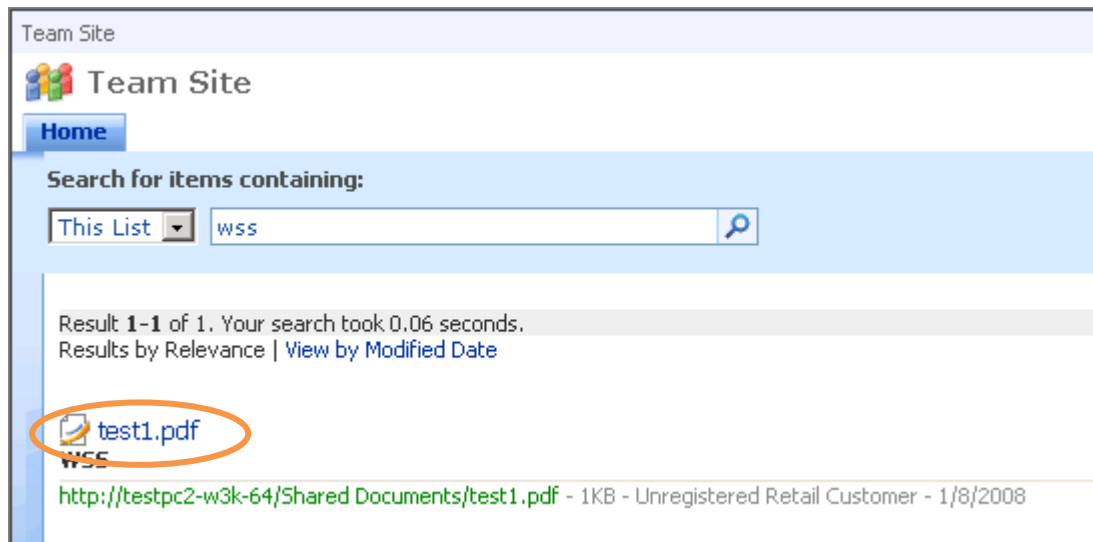
After you finish uploading PDF files, you can start a search to find text within PDF files. Also, you can search PDF document properties, such as author, title, etc.

To start a search, please perform the following:

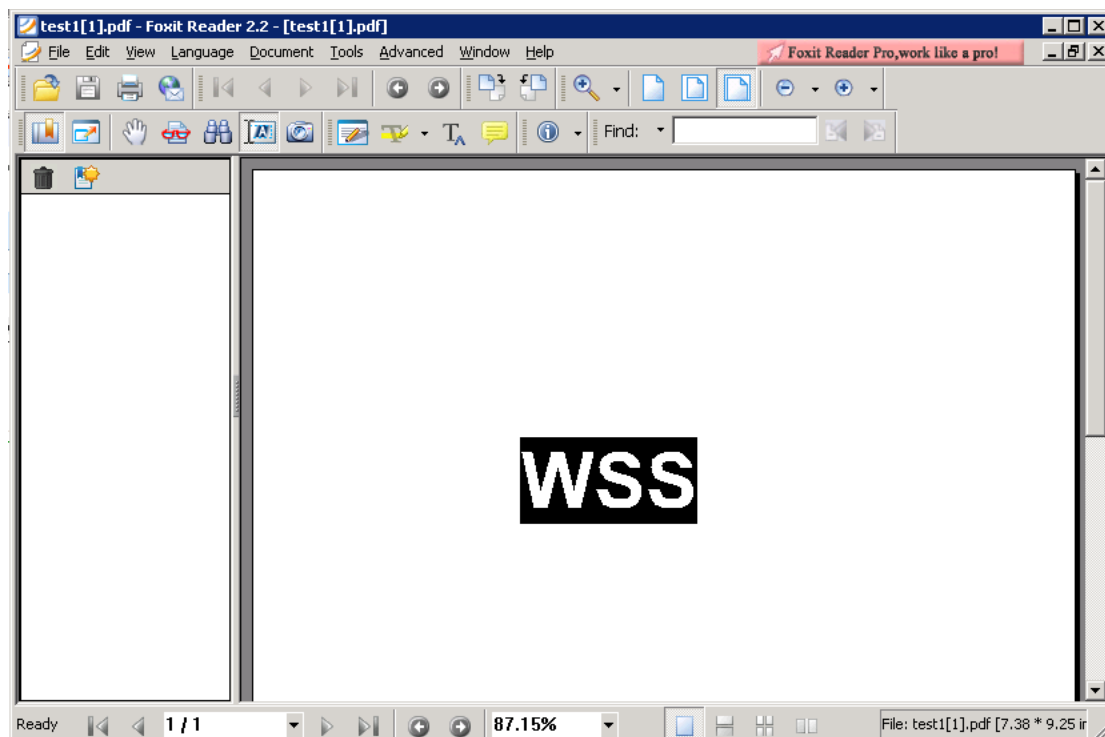
- Go to the **Shared Documents**, please type the text you want to search in the search box > and then click the **Search** button .



- 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 MOSS

Foxit PDF IFilter is able to search text in PDF files. After you install Foxit PDF IFilter, you should upload your PDF documents and perform a full crawl with Microsoft Office SharePoint Server (MOSS) before you start a 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 MOSS 2010

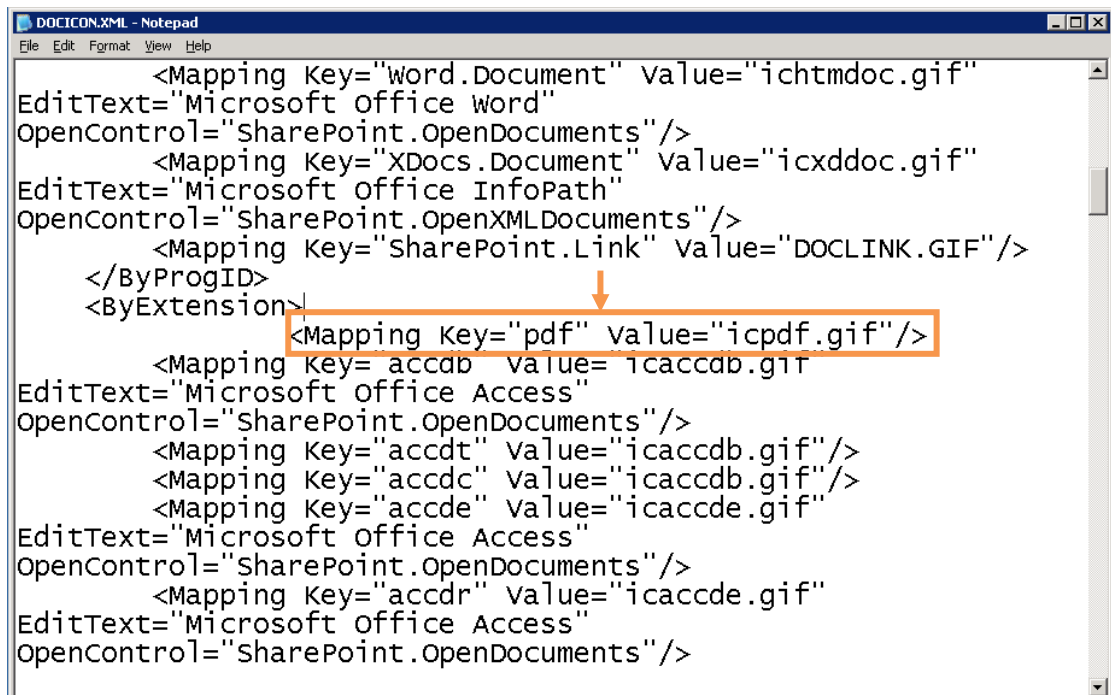
Installing Foxit PDF IFilter

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:

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



```

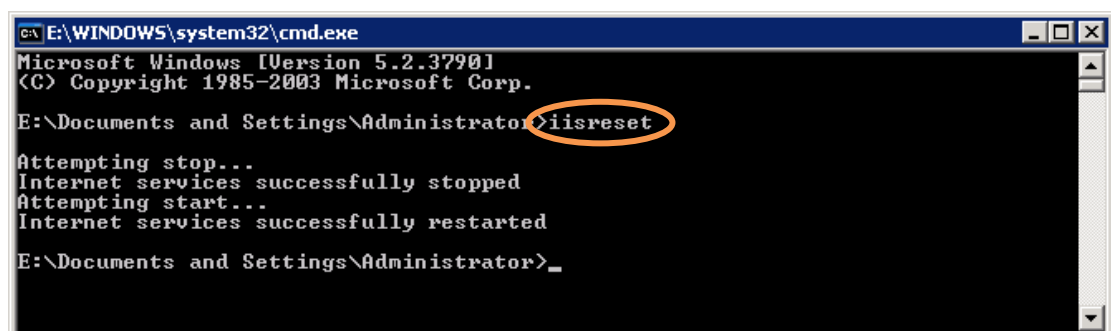
DOCICON.XML - Notepad
File Edit Format View Help
    <Mapping Key="word.Document" value="ichtmdoc.gif"
EditText="Microsoft Office word"
OpenControl="SharePoint.OpenDocuments"/>
    <Mapping Key="XDocs.Document" value="icxddoc.gif"
EditText="Microsoft Office InfoPath"
OpenControl="SharePoint.OpenXMLDocuments"/>
    <Mapping Key="SharePoint.Link" value="DOCLINK.GIF"/>
</ByProgID>
<ByExtension>
    <Mapping Key="pdf" value="icpdf.gif"/>
    <Mapping Key="accdb" value="icaccdb.gif"
EditText="Microsoft Office Access"
OpenControl="SharePoint.OpenDocuments"/>
    <Mapping Key="accdt" value="icaccdb.gif"/>
    <Mapping Key="accdc" value="icaccdb.gif"/>
    <Mapping Key="accde" value="icaccede.gif"
EditText="Microsoft Office Access"
OpenControl="SharePoint.OpenDocuments"/>
    <Mapping Key="accdr" value="icaccede.gif"
EditText="Microsoft Office Access"
OpenControl="SharePoint.OpenDocuments"/>

```

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

- 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 opsearch14

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**.

Search Service Application: Manage File Types - Windows Internet Explorer

http://win-dhbouvs1vcz:1000/_admin/search/managefiletypes.aspx?appid={5401f003-5301-4800-a0b4-c0893542f4ce}

Search Service Application: Manage File Types

Site Actions

Microsoft SharePoint 2010 Central Administration > Search Service Application: Manage File Types

Administration
 Search Administration
 Farm-Wide Search Administration

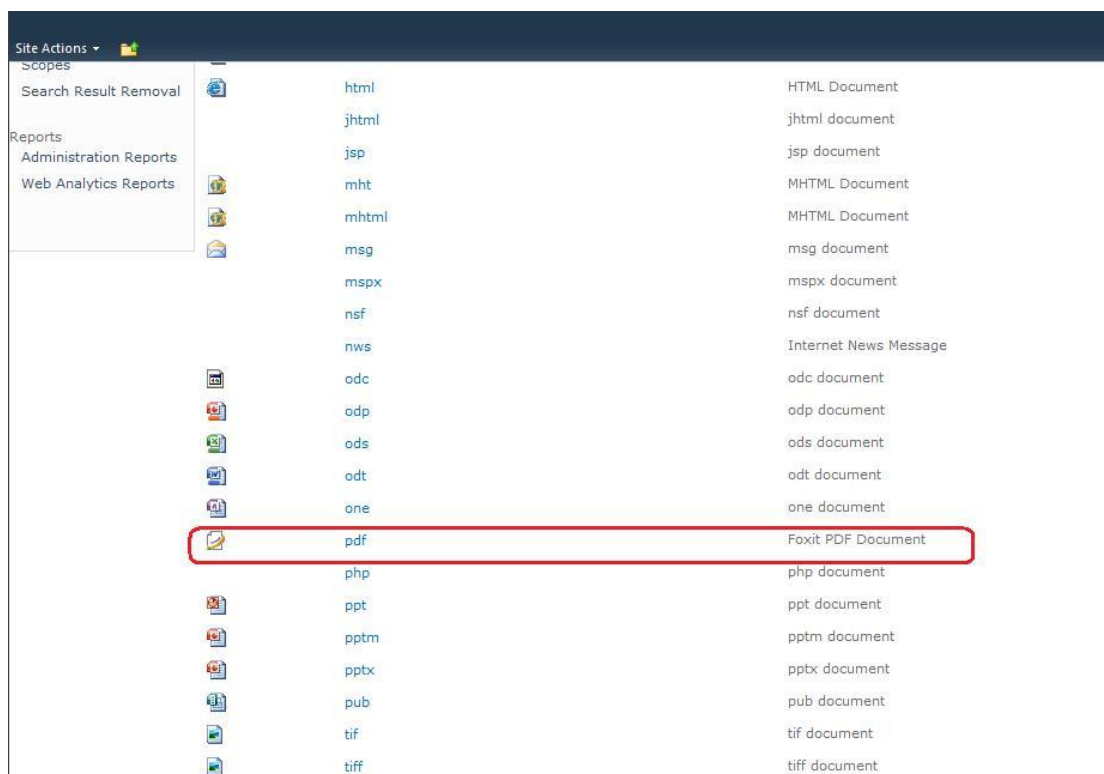
Crawling
 Content Sources
 Crawl Rules
 Crawl Log
 Server Name Mappings
 Host Distribution Rules
 File Types
 Reset All Crawled Content
 Crawler Impact Rules

Queries and Results
 Authoritative Pages
 Federated Locations
 Metadata Properties
 Scopes
 Search Result Removal

Use this page to specify file types to include in the content index.

New File Type

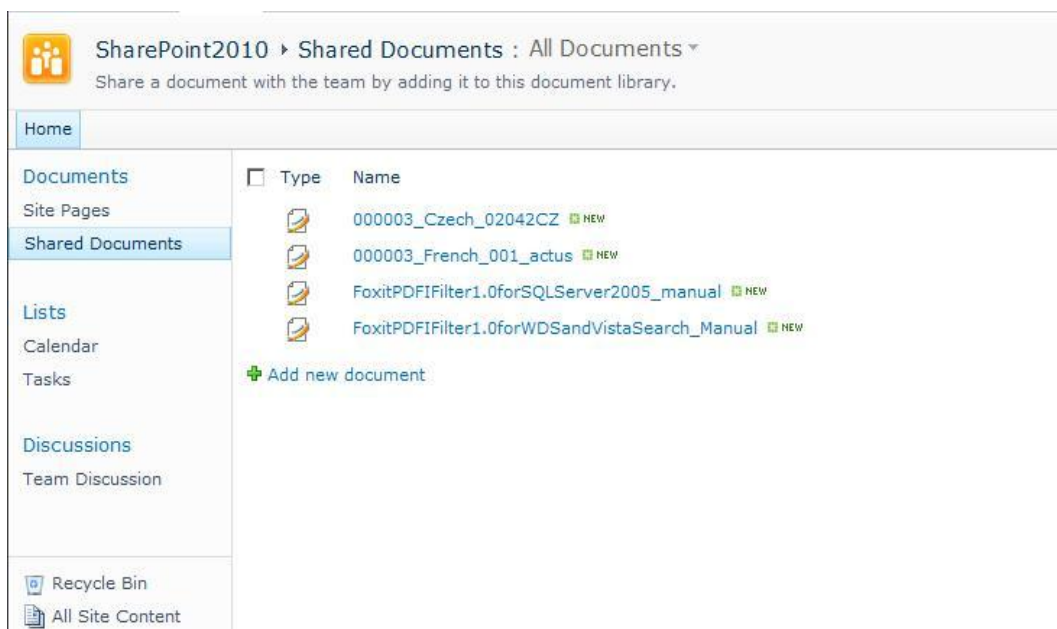
Icon	File name extension	File type
	ascx	ASP.NET User Control
	asp	asp document
	aspx	ASP.NET Server Page
	csv	csv document
	doc	doc document
	docm	docm document
	docx	docx document
	dot	dot document
	eml	Internet E-Mail Message
	exch	exch document
	htm	HTML Document
	html	HTML Document
	jhtml	jhtml document



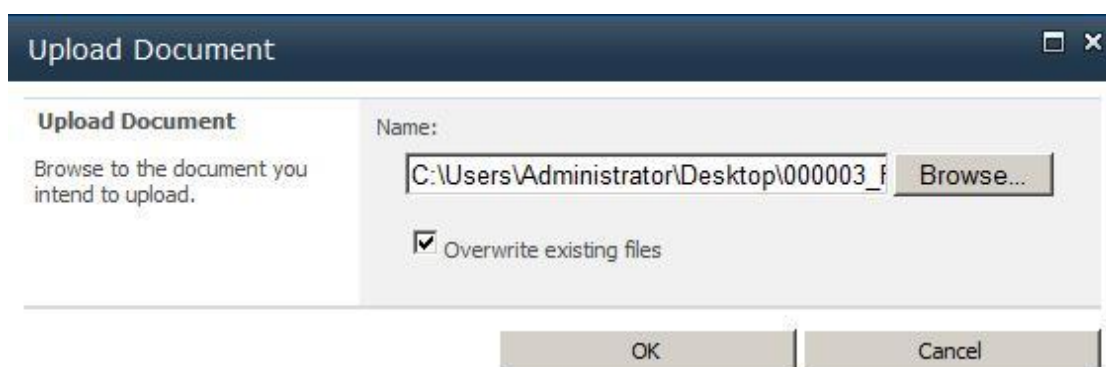
The PDF file type has been added

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

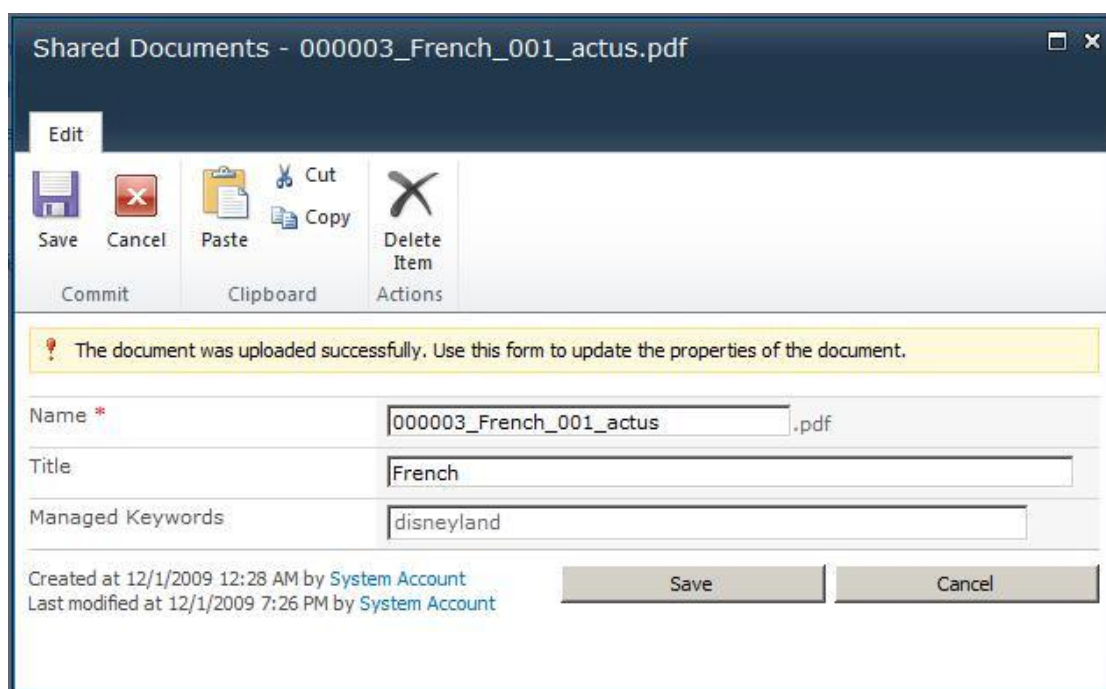
1. Go to the **Shared Documents**, and click **Add new document**.



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.

Use this page to add, edit, or delete content sources, and to manage crawls.

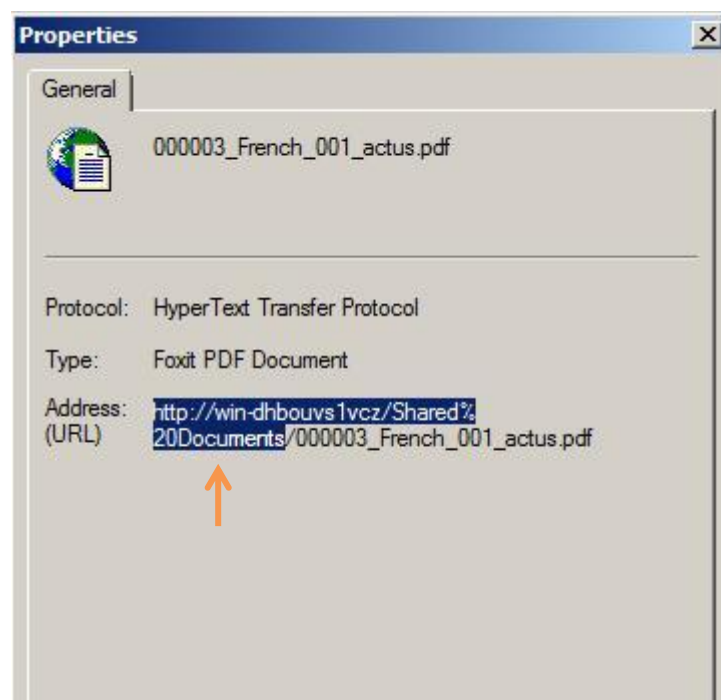
[New Content Source](#) [Refresh](#) [Start all crawls](#)

Type	Name	Status	Current crawl duration	Last crawl duration	Last crawl completed	Next Full Crawl	Next Incremental Crawl
Local SharePoint sites		Idle		00:05:32	12/1/2009 1:47 AM	None	None

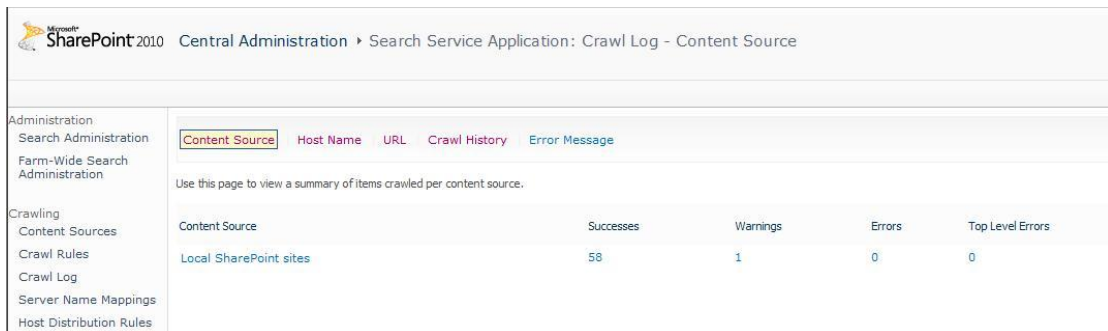
7. (Optional) To start an incremental crawl, please open the content source's context menu by left-clicking the down arrow and select **Start Incremental Crawl**.

- View Crawl Logs.

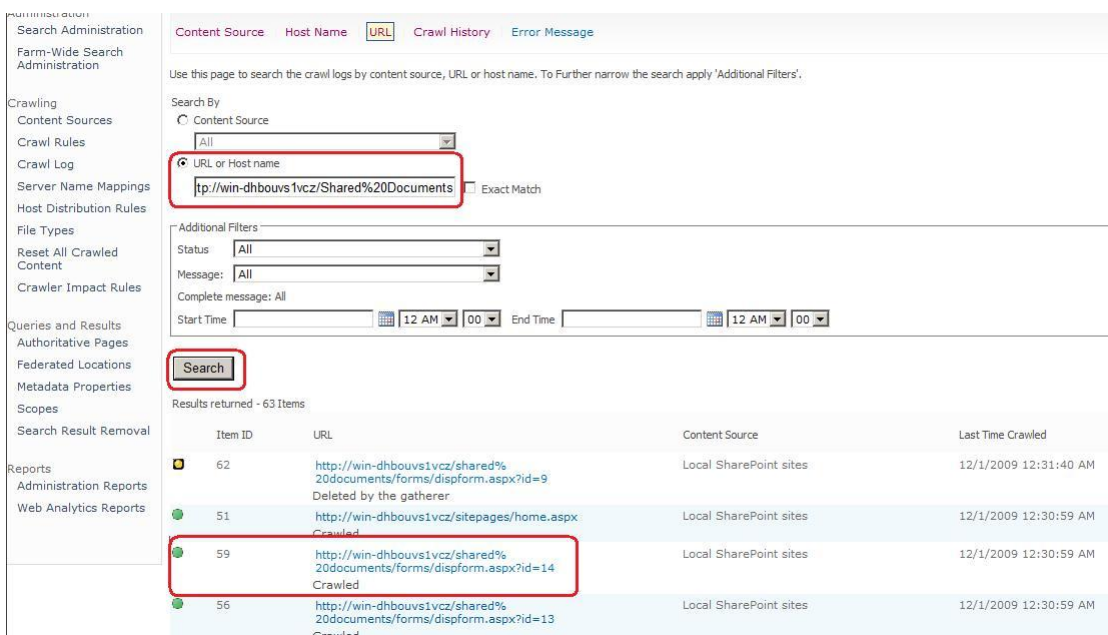
- Return to the **Shared Documents**.
- Right-click the PDF document you have uploaded > choose **Properties**.
- Select the **address (URL)** of the PDF file except [filename.pdf] > right-click the selected area > choose **Copy**.



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.

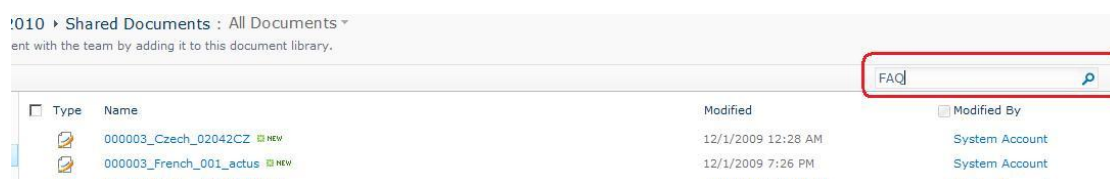


Searching PDFs

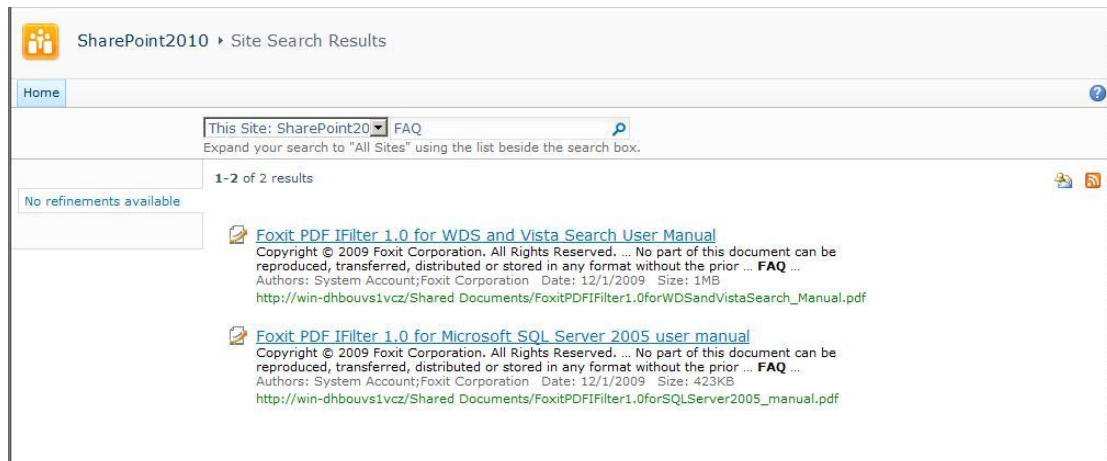
After you finish indexing PDF files, you can start a search to find text within PDF files. Also, you can search PDF document properties, such as author, title, etc.

To start a search, please perform the following:

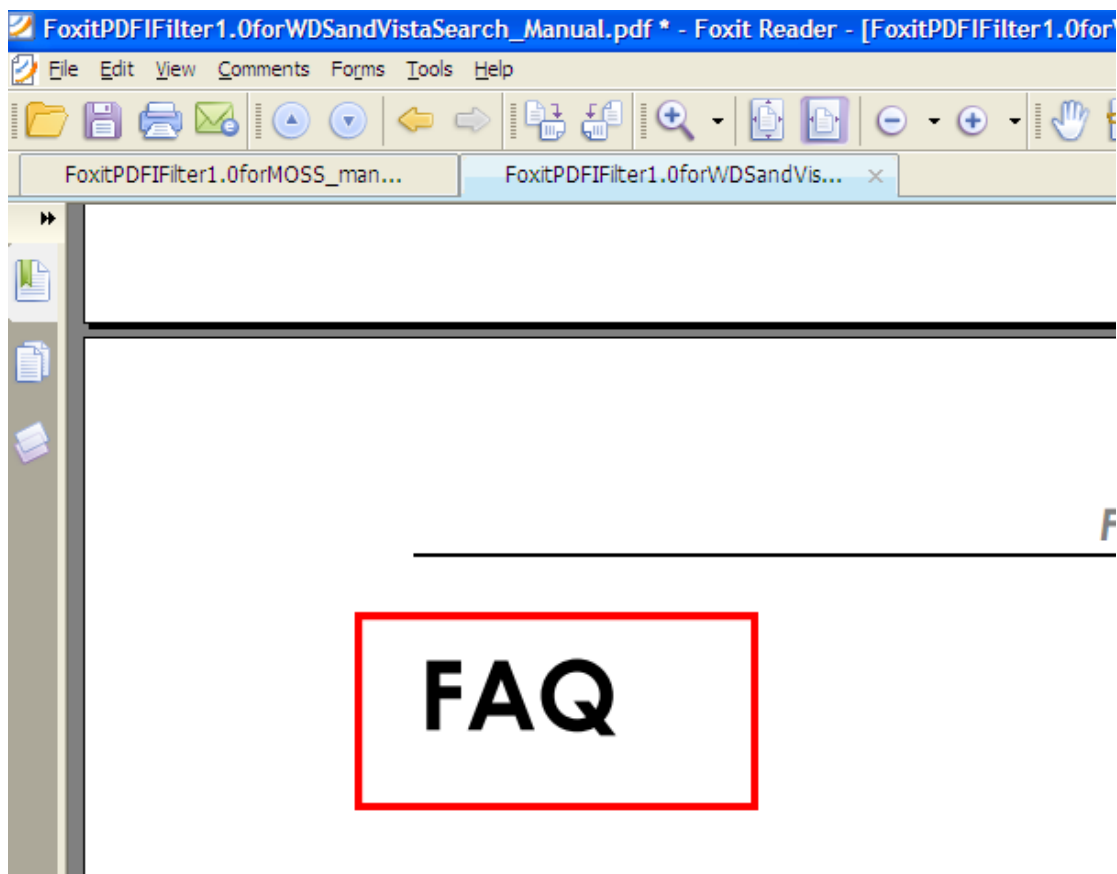
- Go to the **Shared Documents: All Documents** page, type the text you want to search in the search box > hit Enter.



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



Search results



Open one of the search results

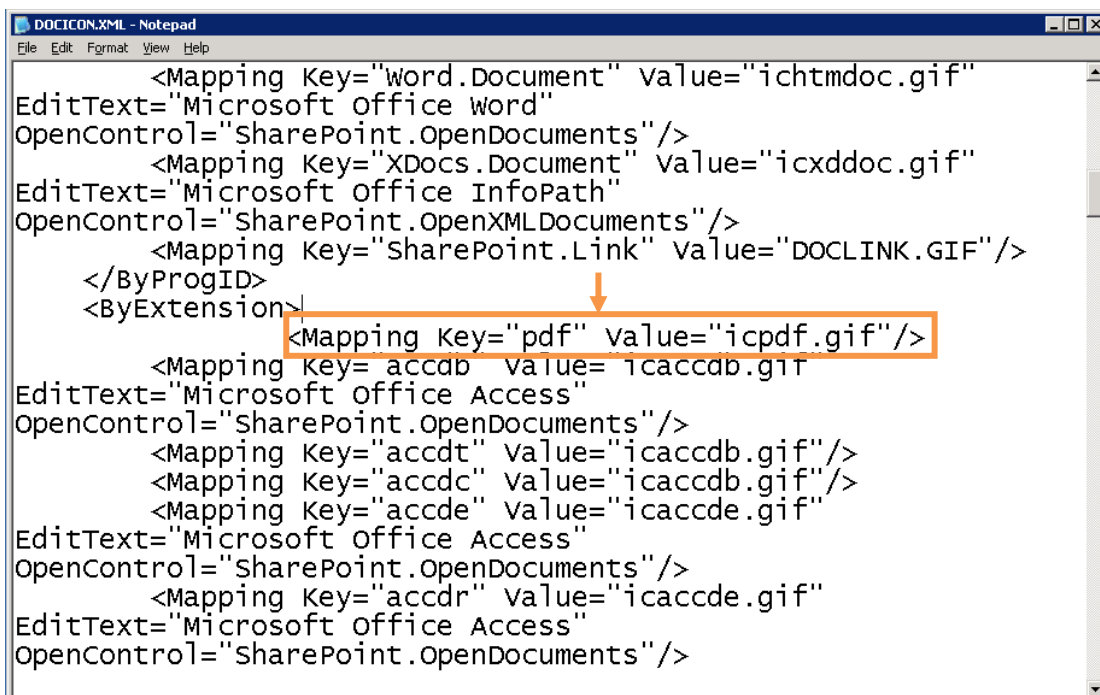
Working in Moss 2007

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 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 2.0, 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 2.0 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="icpdf.gif"/>`



```

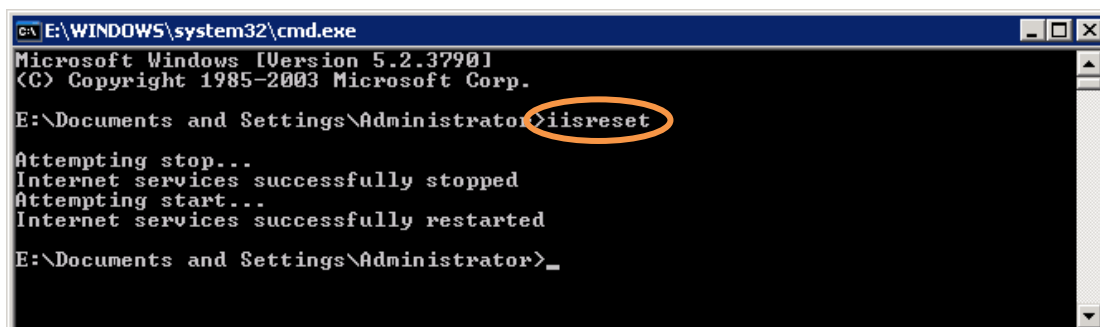
DOCICON.XML - Notepad
File Edit Format View Help
    <Mapping Key="word.Document" value="ichtmdoc.gif"
EditText="Microsoft Office word"
OpenControl="SharePoint.OpenDocuments"/>
    <Mapping Key="XDocs.Document" value="icxddoc.gif"
EditText="Microsoft Office InfoPath"
OpenControl="SharePoint.OpenXMLDocuments"/>
    <Mapping Key="SharePoint.Link" value="DOCLINK.GIF"/>
</ByProgID>
<ByExtension>
    <Mapping Key="pdf" value="icpdf.gif"/>
    <Mapping Key="accdb" value="icaccdb.gif"
EditText="Microsoft Office Access"
OpenControl="SharePoint.OpenDocuments"/>
    <Mapping Key="accdt" value="icaccdb.gif"/>
    <Mapping Key="accdc" value="icaccdb.gif"/>
    <Mapping Key="accde" value="icacdde.gif"
EditText="Microsoft Office Access"
OpenControl="SharePoint.OpenDocuments"/>
    <Mapping Key="accdr" value="icacdde.gif"
EditText="Microsoft Office Access"
OpenControl="SharePoint.OpenDocuments"/>

```

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

- 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 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:

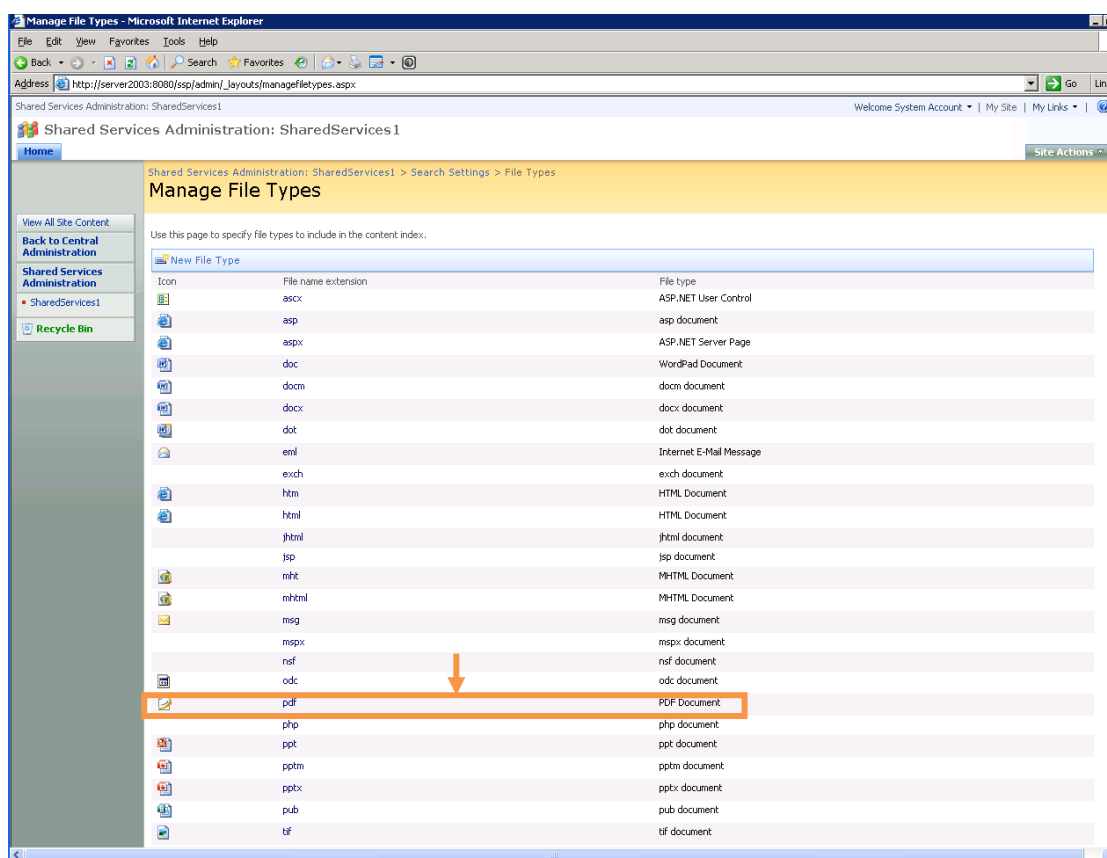
- Click to check the parts of [Updating Foxit PDF IFilter](#) and [Uninstalling Foxit PDF IFilter](#).
- If you changed the settings for IFilter in the configurable registry, please perform the following commands in the command prompt window:

1. iisreset
2. net stop spsearch
3. net start spsearch
4. net stop osearch
5. net start osearch

Indexing PDFs

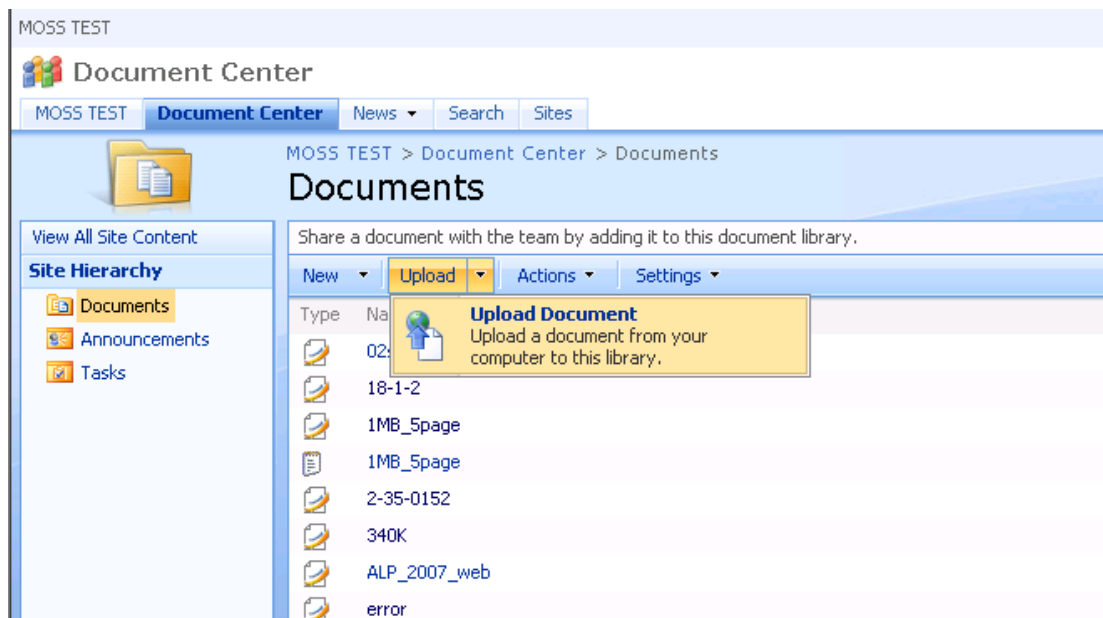
To index PDF files on your computer, please do the following:

- 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**.

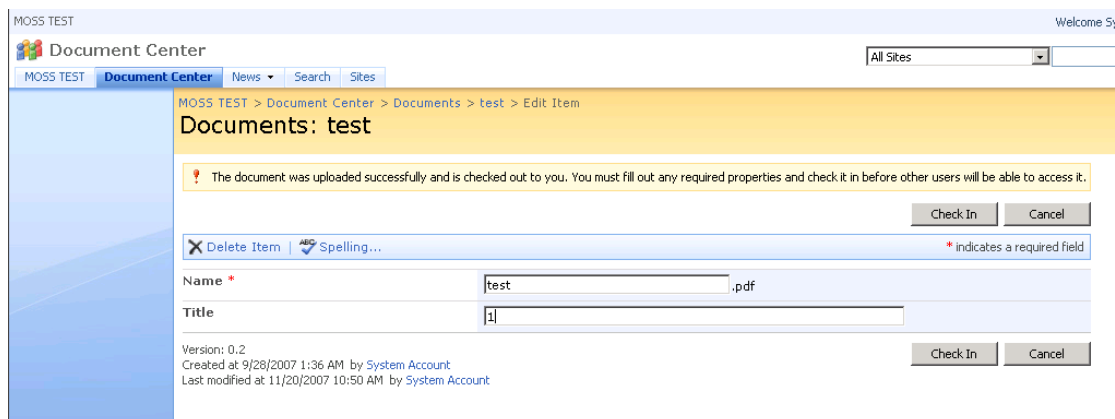


The PDF file type has been added

- 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**.

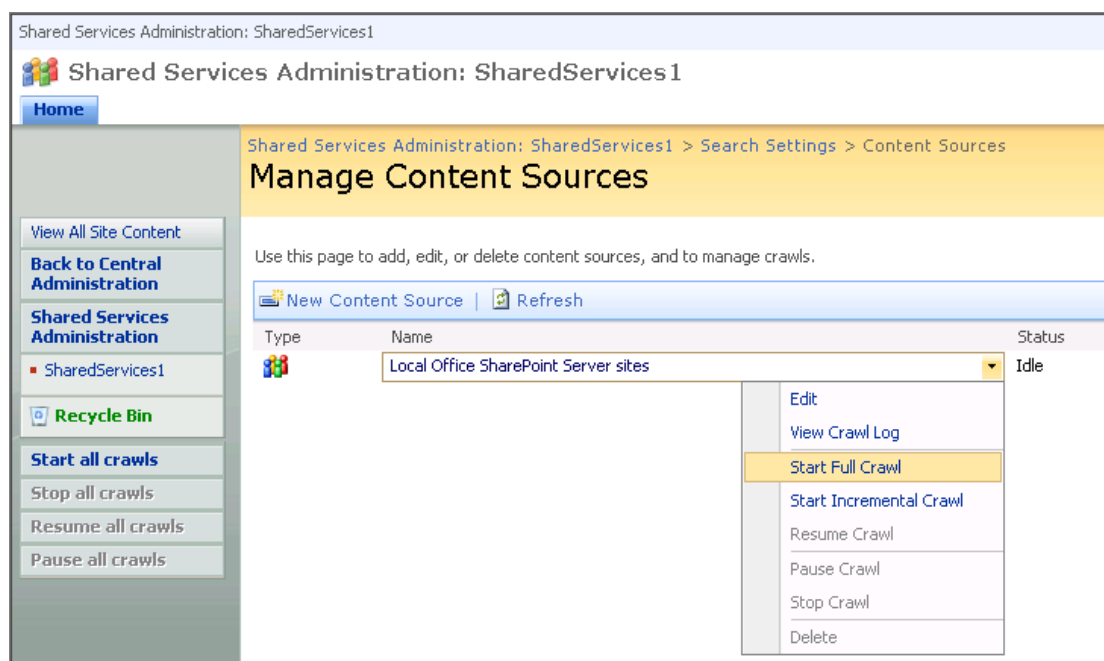


3. Click the **Browse** button to upload a PDF document and click **OK**. When it has uploaded, the **Documents Edit Item** page is displayed. You can give a title, if you like, to your uploaded PDF file. Click the **Check In** button.



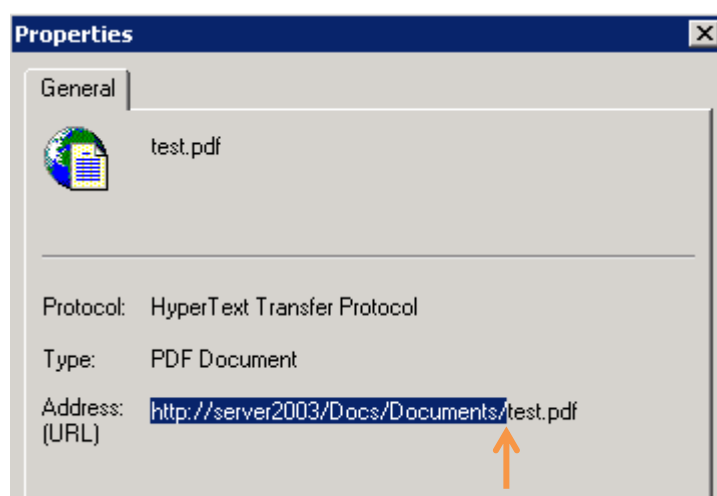
4. When you are done, you will be returned to the Documents page where you will see that your PDF file has been uploaded.
5. Return to the **Shared Service Administration: SharedServices 1** home page, click **Search Settings** link> under **Crawl Settings** click **Content sources and crawl schedules**.

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



- 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.

Shared Services Administration: SharedServices1

Shared Services Administration: SharedServices1

Home

Shared Services Administration: SharedServices1 > Search Settings > Hostname Subsites > Crawl Log

View All Site Content

Back to Central Administration

Shared Services Administration

SharedServices1

Find URLs that begin with the following hostname/path:

Content Sources

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

Shared Services Administration: SharedServices1

Home

Shared Services Administration: SharedServices1 > Search Settings > Hostname Subsites > Crawl Log

View All Site Content

Back to Central Administration

Shared Services Administration

SharedServices1

Recycle Bin

View by hostname

View by URL

Find URLs that begin with the following hostname/path:

Show messages occurring later than

Content Sources

Status Type

Crawled Content Status - 174 Items: 171 Successes, 0 Errors, 3 Warnings

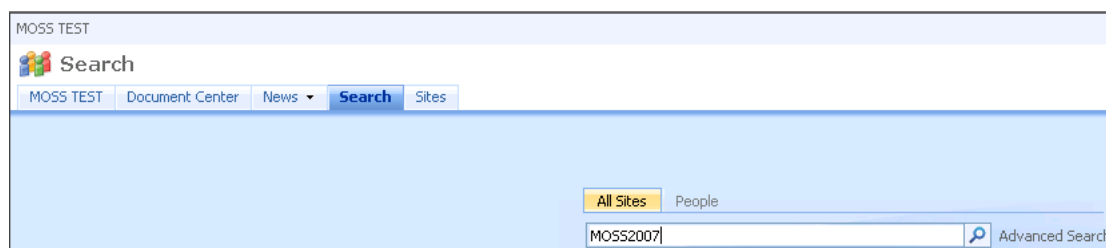
URL	Status
sts3://server2003:8080/contentdbid={05dff056-9b...	Crawled
sts3://server2003/contentdbid={c65d2229-b48b-42...	Crawled
http://server2003	Crawled
http://server2003:8080	Crawled
sps3://server2003:8080/site\$\$\$people	Crawled
sts3://server2003	Crawled
sts3://server2003:8080	Crawled
sps3://server2003:8080/site\$\$\$people/bucketid=1	Not Modified
sps3://server2003:8080	Crawled
http://server2003/docs/documents/test.pdf	Crawled

Searching PDFs

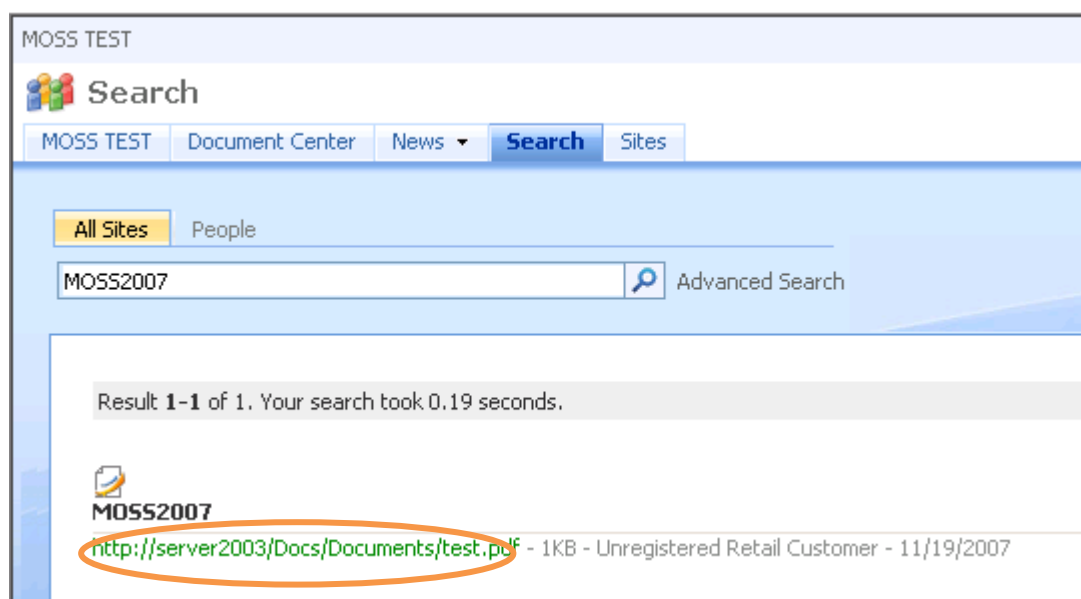
After you finish indexing PDF files, you can start a search to find text within PDF files. Also, you can search PDF document properties, such as author, title, etc.

To start a search, please perform the following:

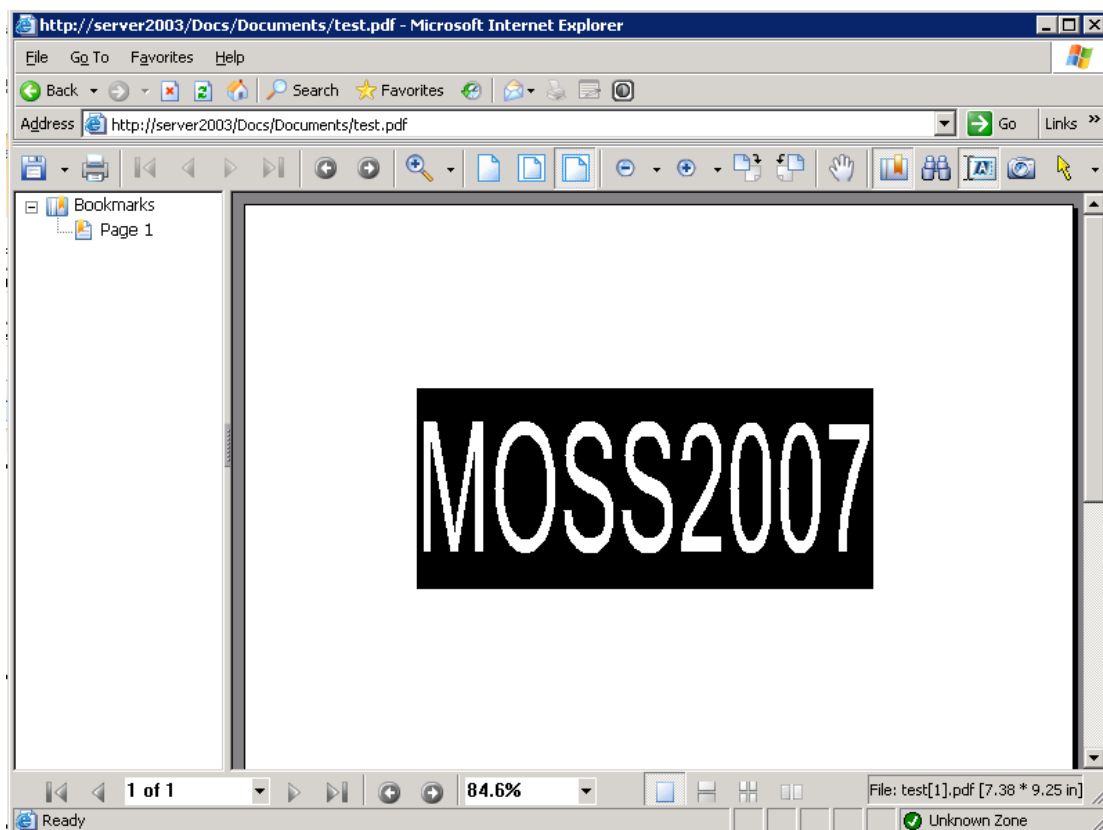
- Go to the **Document Center**, and click **Search** to visit the Search Center > type the text you want to search > hit Enter.



- 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 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 2.0.

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

Chapter 8 - FAQ

1. What is Foxit PDF IFilter?

Foxit PDF IFilter is an application designed to help users index a large amount of PDF documents and then quickly find text within these documents. It acts as a plug-in for full-text search engines that scans documents for text and properties (also called attributes), extracts text from documents, filters out formatting and retaining information about text position, and extracts properties of an entire document.

2. What can be extracted by Foxit IFilter?

It can extract the following contents:

- PDF attributes (Title, Author, Subject, Keyword, Create Time/Date, Last Saved Time/Date , Number of Pages, Name of creating Application)
- PDF bookmark
- Attachment (including document attachment and annotation attachment)

3. Is Foxit PDF IFilter free?

Foxit PDF IFilter can be used for free on desktop environment. However, users need to purchase licenses when they use Foxit PDF IFilter on server environments.

4. I have a computer with one hyper-threading processor inside. Do I need to buy a license for 2 CPUs for the machine?

We will only count the “real” numbers of processors reported by your system. Please go to Start > Programs > Accessories > System Tools > System Information to check your CPU numbers.

5. Does Foxit IFilter implement IPersistStream?

Yes, Foxit PDF IFilter implements the IPersistStream.

6. How do I verify the correct installation of Foxit PDF IFilter?

Firstly, please check if Foxit PDF IFilter appears in the list of programs on the Program Start Menu after installation.

Secondly, you can download IFilter detection tools to inspect IFilter installation information in the registry, e.g. the filtreg.exe program.

Thirdly, install Windows Desktop Search to verify if the text in PDF files can be found.

7. How do I upgrade Foxit PDF IFilter? Do I need to reboot the machine?

You need to uninstall the old version of Foxit PDF IFilter to install the new one. You do not have to reboot your machine after update.

8. Do I have to rebuild index after updating?

That depends. Foxit PDF IFilter consists of a core layer and an installation layer. When you upgrade the installation layer, you do not need to re-do a full index. But when you upgrade the core layer, you may need to rebuild index on your computer.

9. Why can't I find some PDF files?

There might be three reasons:

First, Foxit PDF IFilter can not index password-protected PDF files.

Second, the PDF file doesn't contain searchable text. You can check if there is searchable text in the PDF file by opening it in Foxit Reader and selecting the text with the Select Text tool. Or you can enter into the Text Viewer mode to select text. If neither method highlights any text, it is likely that the PDF contains a source image of text which Foxit PDF IFilter can not index.

Third, the PDF file doesn't contain text that is properly encoded. If the file contains searchable text, yet you cannot find the text with Find Tool in Foxit Reader, then the text may not be properly encoded.

10. Why can't Foxit PDF IFilter work after Microsoft updates? Do I have to re-install it?

If you installed the Foxit PDF IFilter on your search server, the IFilter does not work after you install a Microsoft update. It is because that the upgrade program automatically overwrites the registry value of Foxit PDF IFilter with that of Adobe PDF IFilter.

To make it work again, you must reinstall Foxit PDF IFilter. In this case, you do not have to uninstall IFilter. You can just run the Foxit IFilter MSI program again and select the repair function.

In addition, we will contact Microsoft to address this issue shortly.

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
39819 Paseo Padre Parkway
Fremont CA 94538
USA
- **Sales:**
1-866-MYFOXIT or 1-866-693-6948 (8AM-5PM PST Monday - Friday)
510-438-9090 (8AM-5PM PST Monday - Friday)
408-307-9358 (8AM-5PM PST Monday - Friday)
- **Support:**
1-866-MYFOXIT or 1-866-693-6948 (8AM-5PM PST Monday - Friday)
979-446-0280 (6AM-5PM PST Monday - Friday)
- **Fax:**
510-405-9288
- **Website:**
www.foxitsoftware.com
- **E-mail:**
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Technical Support - support@foxitsoftware.com
Marketing Service - marketing@foxitsoftware.com