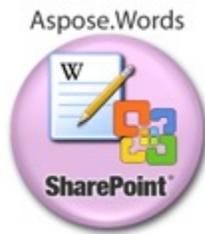

Aspose.Words for SharePoint Documentation

Introducing Aspose.Words for SharePoint



Does your organization base a corporate document depository on Windows SharePoint Services or Microsoft Office SharePoint Server's technologies?

Do you have to utilize multiple document formats in your internal work process or in your interaction with customers and partners?

Would you like to see an affordable and fast tool capable of converting documents right in your SharePoint's document library with high fidelity but without the use of Microsoft Word automation?

Do you generate documents based on database data? Would you like to do it right in your SharePoint document library and save the result in multiple document formats?

Aspose.Words for SharePoint is a unique solution, which enables you to

- Perform high-fidelity document conversion to multiple formats.
- Generate reports based on a Microsoft Word template document and an external data source.

You can click on a document in a SharePoint document library and convert it to any of the supported formats:

- PDF - Adobe Portable Document
- DOCX - Office Open XML
- DOC - Microsoft Word 97 - 2003 Document
- RTF - Rich Text
- MHT - Web Page Archive
- TXT - Plain Text
- XML - Microsoft Word 2003 WordprocessingML
- XML - Flat OPC
- ODT - OpenDocument
- EPUB - IDPF Digital Book
- XPS - XML Paper Specification

You can put a report template in a SharePoint document library and make reports from this template saving the result in any of the formats above.

Use Aspose.Words for SharePoint with the following products:

- Windows SharePoint Services 3.0 (WSS)
- Microsoft Office SharePoint Server 2007 (MOSS)
- Microsoft SharePoint Foundation 2010
- Microsoft SharePoint Server 2010
- x32 and x64 servers supported.

There are no additional system requirements besides those existing for the products above.

Please read on to learn more. This documentation describes the features, installation, evaluation, licensing, common use cases and settings of Aspose.Words for SharePoint.

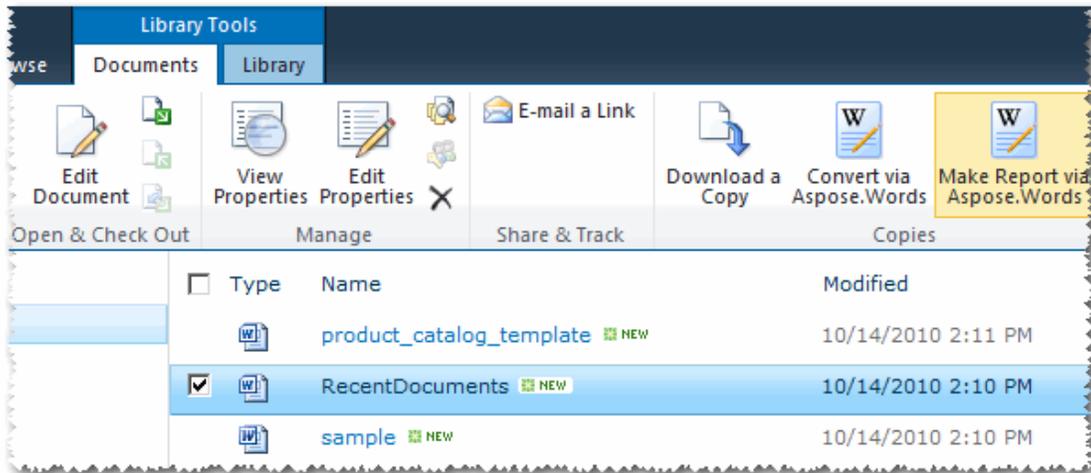
You can use Aspose.Words for SharePoint right from your SharePoint's document library to convert a particular document:



Or to convert all files in the current folder:



You can start a report from a report template.



Aspose.Words for SharePoint lets you enter report parameters and chose destination format and location.

Site Actions Test user

Root > Aspose.Words for SharePoint Report Settings version 2.0.0.0
[contact support](#)

Home

Libraries
Documents

Lists
Tasks

Recycle Bin
 All Site Content

Report Properties
The selected report properties are listed on the right.

Report Parameters
Enter values for the report parameters.

Destination File
Specify report file format and location.

Report template:
[RecentDocuments.docx](#)

Report definition file:
[sql_par_date_sample.arpt](#)

Data source definition file:
[test_ds.adsd](#)

Select the documents created on or after this date:

Save as:

- PDF - Adobe Portable Document
- DOCX - Office Open XML
- DOC - Microsoft Word 97 - 2003 Document
- RTF - Rich Text
- MHT - Web Page Archive
- TXT - Plain Text
- XML - Microsoft Word 2003 WordprocessingML
- XML - Flat OPC
- ODT - OpenDocument
- EPUB - IDPF Digital Book
- XPS - XML Paper Specification

Destination file:
 .pdf

Destination folder:

Overwrite existing files in the destination folder

Checking *Overwrite existing files in the destination folder* will overwrite the destination file if it already exists. If this checkbox is not checked, the generated report will not be saved if the file with the specified name already exists in the destination folder.

Features

Multiple formats support

Having Aspose.Words for SharePoint installed you can convert documents right from your SharePoint document library between many popular office document formats and most of the conversions is done with high fidelity.

Currently Aspose.Words for SharePoint supports the following input formats:

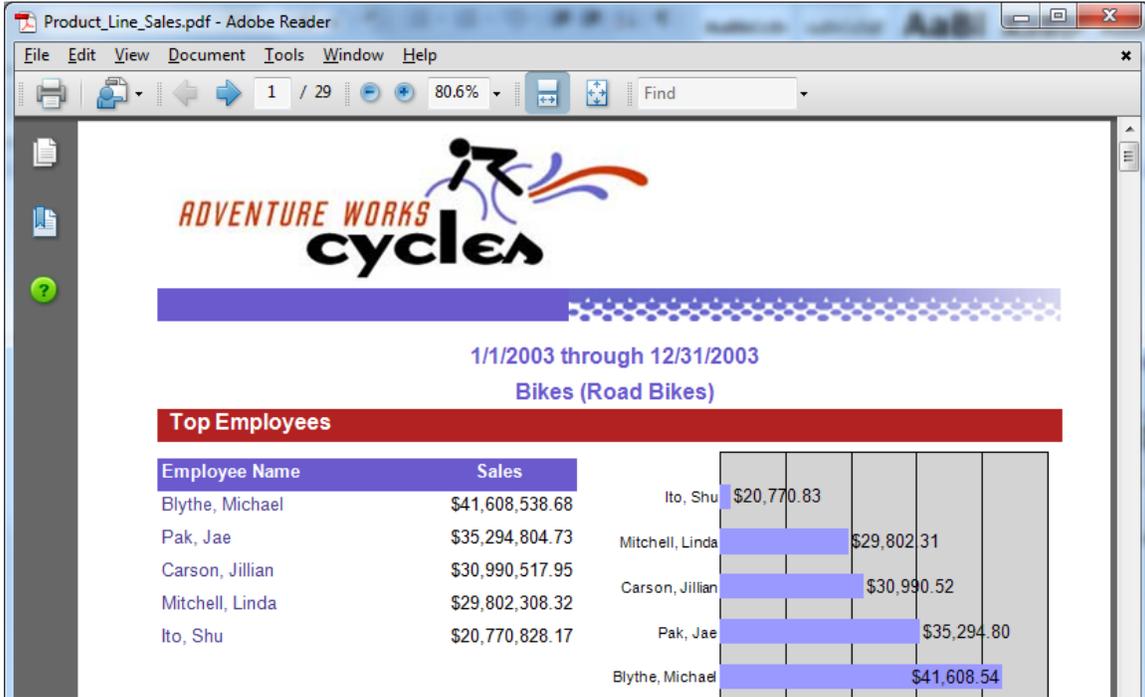
- DOCX – Office Open XML
- DOC - Microsoft Word 97 - 2003 Document
- RTF - Rich Text
- MHT - Web Page Archive
- XML - Microsoft Word 2003 WordprocessingML
- XML - Flat OPC
- ODT - OpenDocument

To generate documents, Aspose.Words for SharePoint relies on a built-in version of [Aspose.Words for .NET](#), the market leading document-processing component from Aspose. **DOC, OOXML, RTF and WordprocessingML** copies of the same document **will look identical to each other**, thanks to the high degree of support for the underlying file formats, provided by Aspose.Words. Microsoft Word is not used to generate documents.

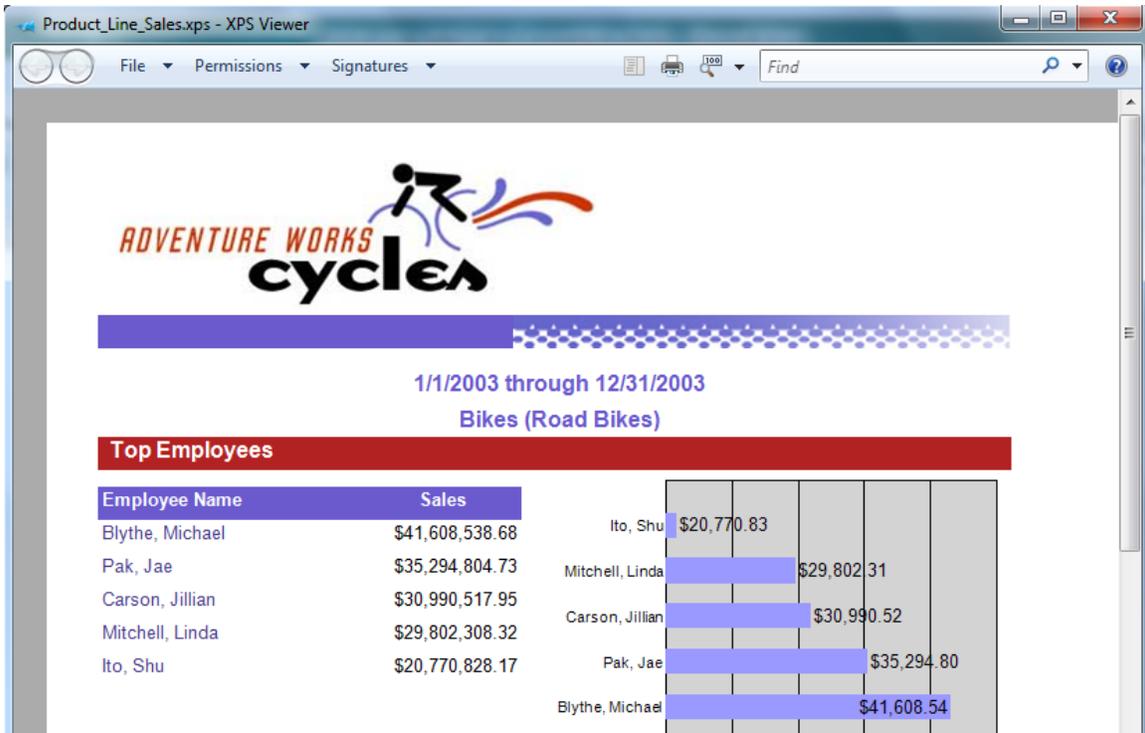
The full list of output formats supported by Aspose.Words for SharePoint is below:

- PDF - Adobe Portable Document
- DOCX – Office Open XML
- DOC - Microsoft Word 97 - 2003 Document
- RTF - Rich Text
- MHT - Web Page Archive
- TXT - Plain Text
- XML - Microsoft Word 2003 WordprocessingML
- XML - Flat OPC
- ODT - OpenDocument
- EPUB - IDPF Digital Book
- XPS - XML Paper Specification

Adobe Portable Document (PDF) document generated by Aspose.Words for SharePoint from Microsoft Word 97 – 2003 (DOC) source.



XML Paper Specification (XPS) document generated by Aspose.Words for SharePoint from Microsoft Word 97 – 2003 (DOC) source.



This documentation was generated using Aspose.Words for SharePoint.

Different conversion options

The following options are available during conversion setup:

Files concatenation

If you select a folder or multiple files for conversion, you can use "Combine Files" checkmark to combine files in different formats into single document. You can set the order in which source files are placed in the combined document.

Convert files in subfolders

This option is available under SharePoint 2007 when a folder is selected for conversion. You can recursively convert all subfolders of the selected folder by using this option. The same subfolder structure is created below the destination folder during conversion. Under SharePoint 2010, the folders are always processed recursively. To process files without subfolders, just select the needed files in a document library view before starting conversion. Do not checkmark any subfolders.

Save destination folder option

Once you have selected Destination folder you can use this option to not have to go through the same steps again. It will save your selection and prepopulate Destination folder field upon next conversion session.

Overwrite existing files in the destination folder

Destination folder you have selected can already contain some of the files you want to convert. This option allows you to skip conversion for such files and process only files which are not presented in the destination folder.

Browse for destination folder

Corporate site can consists of dozens of document libraries with complex URL to them and manual entering of Destination folder can be a headache. So, to not have to remember the whole URL path to the particular library or subfolder within it you can use Browse button to choose Destination folder visually.

Different options will help to adjust the conversion process.

<p>Checking <i>Convert files in subfolders</i> will also include files from subfolders into conversion.</p> <p>Check <i>Combine Files</i> to combine several input files into one. You will be able to select files and set their order on clicking <i>Select Files...</i> button.</p>	<input type="checkbox"/> Convert files in subfolders <input type="checkbox"/> Combine Files
<p>Destination Files</p> <p>Specify where the converted file(s) should be stored.</p> <p>Checking <i>Save destination folder</i> will store the destination path for subsequent conversions.</p> <p>Checking <i>Overwrite existing files in the destination folder</i> will overwrite the destination file if it already exists. Unchecking will skip conversion when the converted file has the same name as an existing file in the destination folder.</p>	<p>Destination file: <input type="text" value="combined_file"/> .pdf</p> <p>Destination folder: <input type="text" value="/Docs/Dest"/> ...</p> <p><input checked="" type="checkbox"/> Save destination folder <input type="checkbox"/> Overwrite existing files in the destination folder</p>
<p style="text-align: right;"><input type="button" value="Select Files..."/> <input type="button" value="Convert"/> <input type="button" value="Cancel"/></p>	

Report Generation

Use Aspose.Words for SharePoint for generating reports based on a Microsoft Word template file.

- Prepare a template file. Edit the visual report layout using Microsoft Word.
- Put placeholders in the report template where external data must be inserted.
- Prepare an XML report definition describing report properties like data source connection, queries to retrieve the data, report parameters and so on.
- Put report template and report definition in a SharePoint document library.
- Link report template and report definition via report template property.

Now you can use you report template to make reports. Click on the report template and select the appropriate menu item. Enter report parameters and choose saving format and location.

Report template supports

- Regions to repeat for each record in a data source table.
- Nested regions for parent-child relationships in the report data.
- Image placeholders to insert images from a data source.

You can access data from

- Relational databases via SQL queries and Microsoft SQL or OLE DB providers.
- SharePoint lists via CAML queries.
- XML data files located in a SharePoint document library.

In a report definition file the following report properties are specified:

- Data source connection properties.

- Queries to retrieve the data.
- Relationships between data tables returned by different queries.
- Report parameters.

You can specify multiple data source connections and queries. You can combine data returned by the different queries using data relationships in the report definition file.

You can store data source connection description in a separate file and use it with multiple reports.

Workflow support

You can use Aspose.Words for SharePoint from a document workflow. Upon installation, these new workflow activities will appear in SharePoint Designer:

- Convert via Aspose.Words
- Make a Report via Aspose.Words

Use them in your workflows to convert documents or build reports.

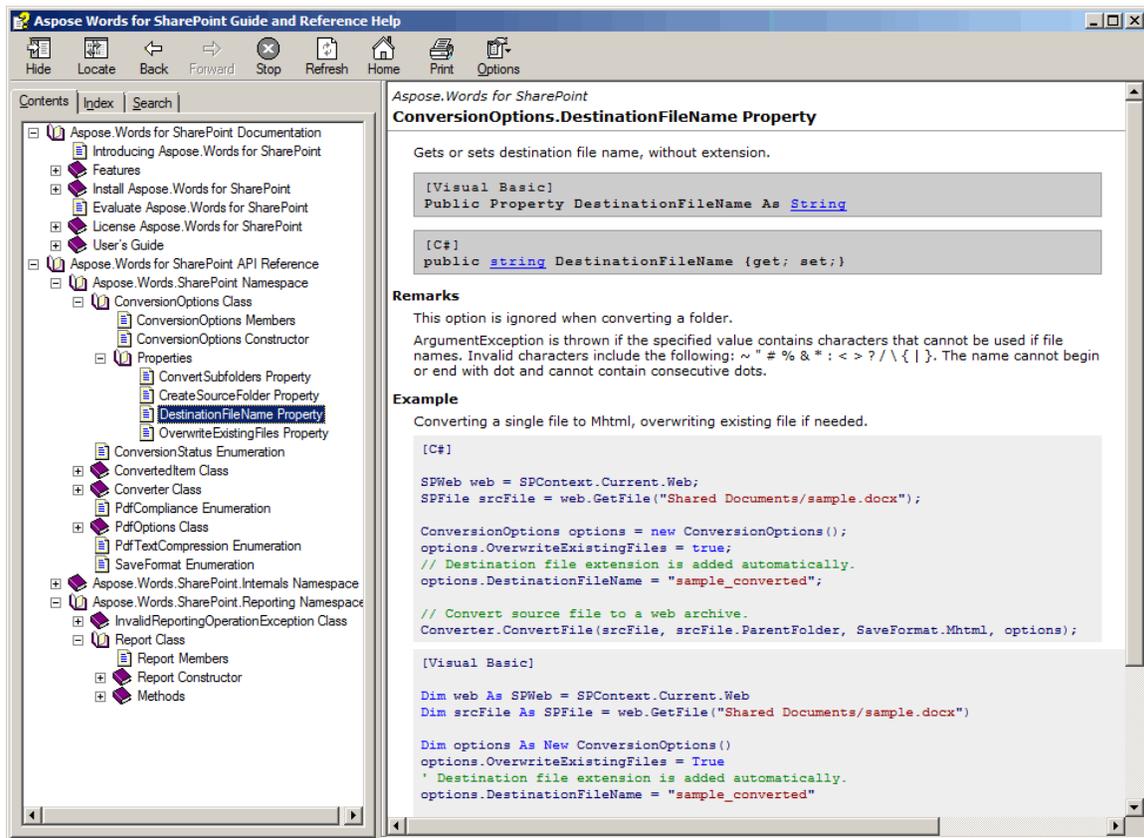
An entry for the conversion activity logged in the workflow history.

Workflow History				
<input type="checkbox"/> View workflow reports The following events have occurred in this workflow.				
Date Occurred	Event Type	User ID	Description	Outcome
3/26/2010 5:16 PM	Comment		Conversion status: Success. File sample.docx was converted to /Converted Documents/PDF/sample.pdf.	

Public API

Customers developing their own SharePoint solution can access our conversion and reporting engine via public API. This includes all supported file formats and conversion options. Both single and multiple files conversions are available. You can save the converted document to stream and specify additional PDF saving options. You can build a report once and save many times to different formats and locations. The detailed interface specification in our [API Reference](#) is accompanied with dozens of C# and VB samples.

Usage of each class member is accompanied with C# and VB samples.



World Class Free Technical Support

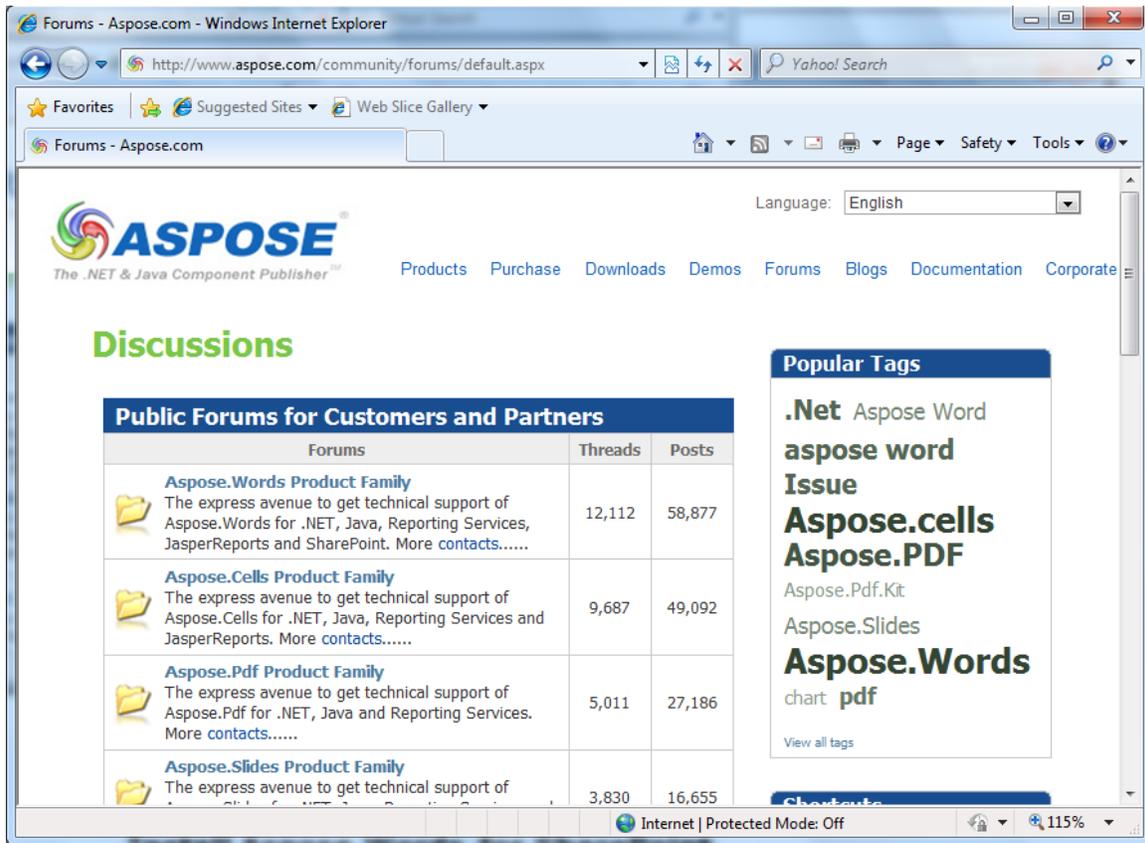
Aspose is renowned for its free and unlimited technical support provided directly by the developers of the products.

If there is a new version of a product available, or if resolving a question results in a fix in the product, all new releases are free if you have an active subscription.

[Aspose.Support Forums](#) is the place to not only resolve technical issues, but also to participate in development discussions with the vibrant and growing community of Aspose users. Currently there are over 40,000 users registered at the Aspose website.

[Aspose.Blogs](#) is the place to look for information about latest releases and about what Aspose developers have to say.

There is plenty of activity in the Aspose.Support Forums.



Install Aspose.Words for SharePoint

System Requirements

Server Requirements

To install Aspose.Words for SharePoint you need a computer running one of the following:

- Windows SharePoint Services 3.0
- Microsoft Office SharePoint Server 2007
- Microsoft SharePoint Foundation 2010
- Microsoft SharePoint Server 2010

Installing the latest service packs and other updates for these products is recommended.

Client Requirements

You need a browser to access SharePoint sites. The following browsers were checked with Aspose.Words for SharePoint:

- Microsoft Internet Explorer 6, 7, 8
- Mozilla FireFox 3.5
- Google Chrome 3
- Safari 4

Installing Apose.Words for SharePoint

Apose.Words for SharePoint is downloadable as Apose.Words.SharePoint.zip archive.

This archive contains:

Apose.Words.SharePoint.wsp	SharePoint solution file. Apose.Words for SharePoint is packaged as a SharePoint solution to facilitate deployment/retraction and feature activation/deactivation across the server farm.
Apose.Words.SharePoint2010.wsp	A solution file for SharePoint 2010. The setup program automatically detects the installed SharePoint version and uses an appropriate solution file.
Apose_LicenseAgreement.rtf	End user license agreement
Apose.Words for SharePoint Guide.pdf	User documentation
Apose.Words for SharePoint API Reference.chm	User documentation and API reference in the hypertext format
setup.exe	Setup program
setup.exe.config	Setup configuration file
Report.xsd	Report definition schema file
DataSource.xsd	Data source definition schema file

The setup program checks the following conditions before proceeding:

- One of the supported SharePoint versions is installed.
- The user has permission to install SharePoint solutions.
- SharePoint database is online.
- SharePoint Administration service is started.
- SharePoint Timer service is started.

Administration service and Timer service are needed because some setup actions rely on a timer job to propagate to all servers in the server farm.

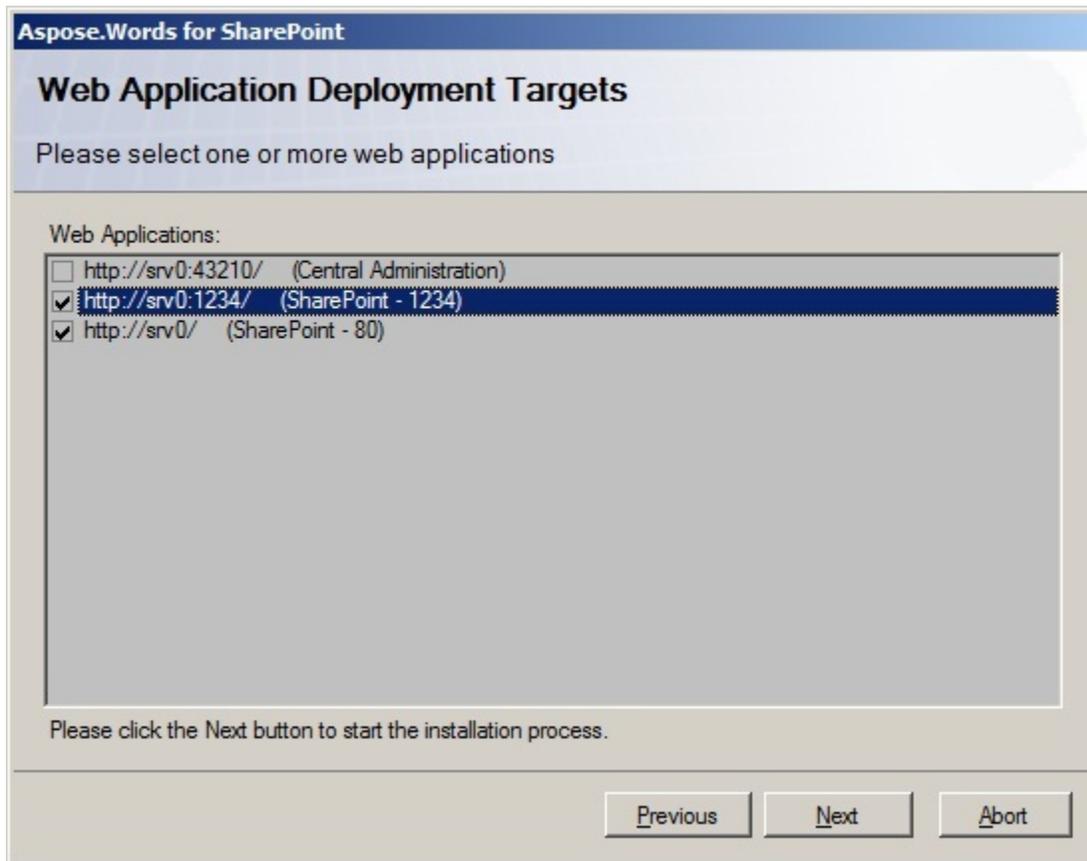
To install Apose.Words for SharePoint:

- Unpack Apose.Words.SharePoint.zip to the local drive on the SharePoint server.
- Run setup.exe and follow the instructions on the screen.

The setup program performs the following actions:

- Check installation prerequisites. Setup will not continue if any check fails.
- Display End User License Agreement. The user must accept the agreement in order to proceed.
- Display deployment target selection dialog. The user selects web applications where the feature shall be deployed and activated. See the figure below.
- Deploy the feature to the server farm.
- Activate the feature for the selected web applications and update their virtual directories.
- Display a list of web applications where the feature has been deployed and activated.

Deployment target selection dialog.



More installation details

Deployment

Aspose.Words for SharePoint performs the following actions during deployment:

- Install Aspose.Words.SharePoint.dll into Global Assembly Cache and add SafeControl entry to the web.config file.
- Install feature manifest and other necessary files to the appropriate directories.
- Register the feature in the SharePoint database and make it available for the activation at the feature scope.

Activation

Aspose.Words for SharePoint is packaged as a web application level feature and can be activated and deactivated on the web application level.

During activation, the feature makes some changes to the virtual directory of web application:

- Add authorized type entry for the workflow activities provided by Aspose.Words for SharePoint
- Add conversion settings page to the sitemap file
- Copy necessary resource files to the App_GlobalResources folder in the virtual directory

Activation and Deactivation after installation

During installation, Aspose.Words for SharePoint is activated for all selected web applications. After installation, SharePoint administrator can use Central Administration utility to activate and deactivate Aspose.Words for SharePoint. Use "Manage Web Application Features" item under "Application Management" to activate and deactivate Aspose.Words for SharePoint after installation.

Activating Aspose.Words for SharePoint on a web application.

Central Administration > Application Management > Manage Web Application Features

Manage Web Application Features

This page allows you to manage web application features.

Web Application: **http://srv0:1234/**

Name	Status
 Aspose.Words for SharePoint Converts documents via Aspose.Words. Supports converting to pdf, docx, doc, rtf, mht, txt, xml, odt, epub, xps.	<input type="button" value="Activate"/>

Uninstalling Aspose.Words for SharePoint

To uninstall Aspose.Words for SharePoint, just run the setup program. If Aspose.Words for SharePoint is already installed, the setup program suggests to remove it.

Choose "Remove" option to uninstall the feature.

Aspose.Words for SharePoint

Remove solution

Confirming solution removal

Aspose.Words for SharePoint is already installed.

Would you like to retract Aspose.Words for SharePoint from all web applications and delete it from the SharePoint solution store?

Please click the Next button to remove Aspose.Words for SharePoint.

During deinstallation, the setup program deactivates Aspose.Words for SharePoint feature for all web applications and retracts the solution from the server farm.

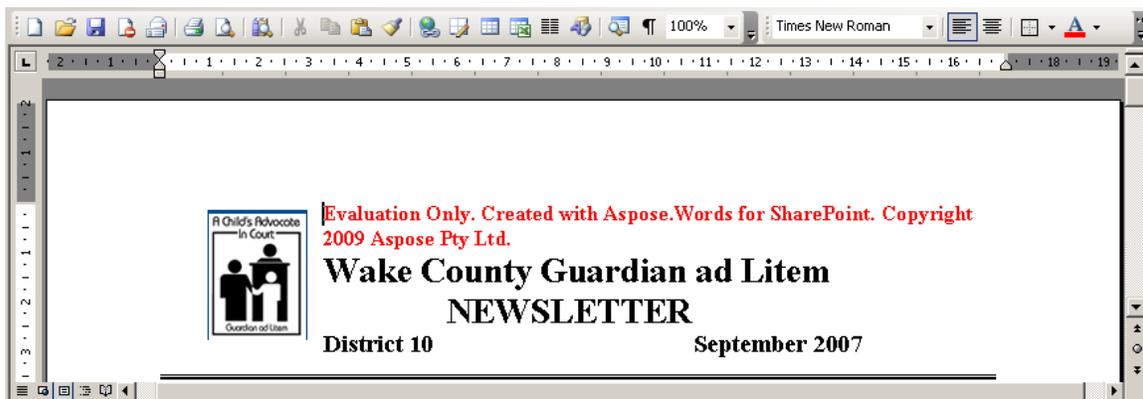
Evaluate Aspose.Words for SharePoint

Make sure to take advantage of the free Aspose.Words for SharePoint evaluation as it has no time limit, and free technical support is provided for evaluation users.

It is the same download for both the evaluation and the paid version of Aspose.Words for SharePoint. Simply download Aspose.Words for SharePoint from the download page, install it and it will work in the evaluation mode.

Evaluation mode injects watermarks into exported reports and limits them to several pages. When you have purchased a license, simply install the license solution over installed evaluation copy of Aspose.Words for SharePoint and it will then work in the licensed mode.

Aspose.Words for SharePoint injects a watermark when working in the evaluation mode.



License Aspose.Words for SharePoint

Installing Aspose.Words for SharePoint License

Once you are happy with your evaluation, you can [purchase a license](#). Before purchasing make sure you understand and agree to the license subscription terms.

The license will be emailed to you after the order has been paid. The license is a .zip archive containing a regular SharePoint solution package.

This archive contains:

Aspose.Words.SharePoint.License.wsp SharePoint solution package file. Aspose.Words for SharePoint License is packaged as a SharePoint solution to facilitate deployment/retraction across the server farm.

readme.txt License installation instructions

License installation is performed from the server console via stsadm.exe. The steps required to install the license are below.

Note: The paths are omitted for clarity. You may need to add the actual path to stsadm.exe and/or solution file when executing them.

1. Run stsadm to add the solution to the SharePoint solution store:

```
stsadm.exe -o addsolution -filename Aspose.Words.SharePoint.License.wsp
```

2. Deploy the solution to all servers in the farm:

```
stsadm.exe -o deploysolution -name Aspose.Words.SharePoint.License.wsp -immediate -force
```

3. Execute administrative timer jobs to complete the deployment immediately

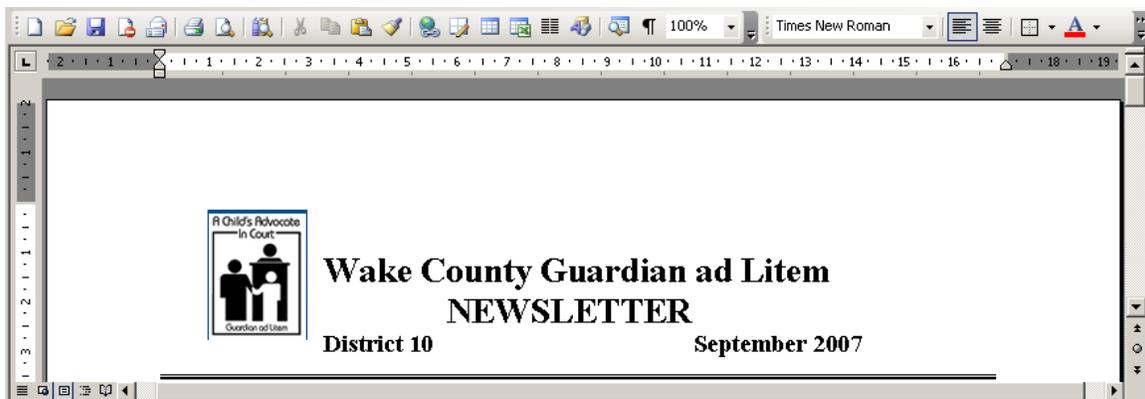
```
stsadm.exe -o execadmsvcjobs
```

Note: You will receive a warning when running deployment step if Windows SharePoint Services Administration service is not started. Stsadm.exe relies on this service and Windows SharePoint Timer Service to replicate solution data across the farm. If these services are not running on you server farm, you may need to deploy the license at each server.

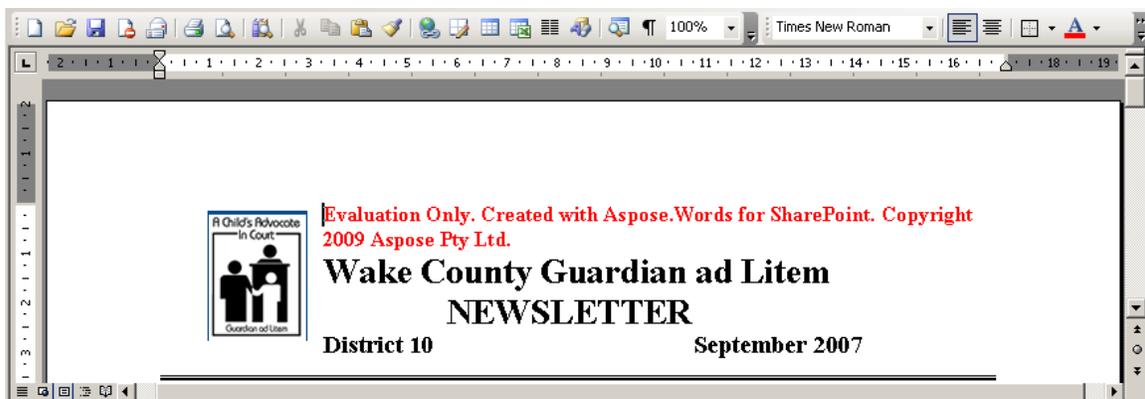
Testing a License

To test that a license has been installed correctly, convert any document into desired format. If the document contains no watermark at the top, the license was activated successfully.

When a valid Aspose.Words for SharePoint License has been installed correctly there will be no evaluation watermark.



If there is a problem with the license, Aspose.Words for SharePoint will work in evaluation mode and still include watermarks into the document.



Uninstalling Aspose.Words for SharePoint License

To uninstall Aspose.Words for SharePoint license, please use the steps below from the server console.

1. Retract the license solution from the farm:

```
stsadm.exe -o retractsolution -name Aspose.Words.SharePoint.License.wsp -immediate
```

2. Execute administrative timer jobs to complete the retraction immediately:

```
stsadm.exe -o execadmsvcjobs
```

3. Wait for the retraction to complete. You can use Central Administration to check if the retraction completed under Central Administration -> Operations -> Solution Management
4. Remove the solution from the SharePoint solution store:

```
stsadm.exe -o deletesolution -name Aspose.Words.SharePoint.License.wsp
```

User's Guide

Reporting

About Reporting in Aspose.Words for SharePoint

With Aspose.Words for SharePoint, you can fill documents with data from external data sources such as databases, SharePoint lists or XML data files. You can save the result in any [supported document format](#). We call this feature Reporting and the final document filled with data is a report.

Reporting is built on top of [Aspose.Words mail merge feature](#). However, Aspose.Words is a class library and you can use it only programmatically. Aspose.Words for SharePoint provides a user interface for making reports from templates stored in a SharePoint document library. You can specify saving format and location through the interface, as well as report parameters.

[Report template](#) is a Microsoft Word file with placeholders defining where to insert data from the report data source. Regular Microsoft Word mail merge fields serve as placeholders. However, Aspose.Words does much more than the standard Microsoft Word mail merge. You can:

- [Define template regions to repeat for each data record in a data source.](#)
- [Use nested regions to reflect parent-child relations in the data.](#)
- [Insert images instead of merge fields.](#)

Changing the visual report layout is very simple. Just use Microsoft Word to change the report template.

Change the report template layout in Microsoft Word.



Report template also specifies where to find the [data source definition](#). In Aspose.Words for SharePoint, data source definition is a separate XML file, which describes database connections and queries to retrieve the data. Currently the following data sources are supported:

- [SQL queries from data sources supported by OLE DB data providers. For Microsoft SQL Server you can use .Net SQL data provider.](#)
- [SharePoint lists via CAML queries.](#)
- [XML data files located in a SharePoint document library.](#)

There are two sets of tasks when using Aspose.Words for SharePoint reporting. A [report user](#) can

- Generate reports from templates and data source descriptions stored in SharePoint document libraries.
- Save the generated reports in any of the supported formats.
- Edit report template to change the layout using Microsoft Word.

A report designer does not need to write the code to get data from a data source. However, he needs to author an XML data source definition where he can

- Describe [data source connection details](#).
- Describe [queries to obtain data from a data source](#).
- Describe [relationships between query results](#).
- Describe [report parameters](#).

You can also build reports from templates programmatically with a few lines of code using Aspose.Words.SharePoint.Reporting namespace.

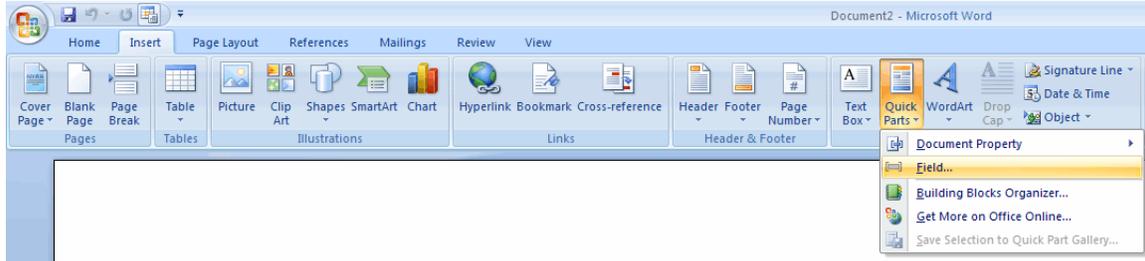
Report Template and Merge Fields

You need a template document before you can generate a report. A template is a Microsoft Word document with placeholders defining where to insert external data. It does not have to be a Microsoft Word template (.dot or .dotx) file. A regular .doc or .docx document will work.

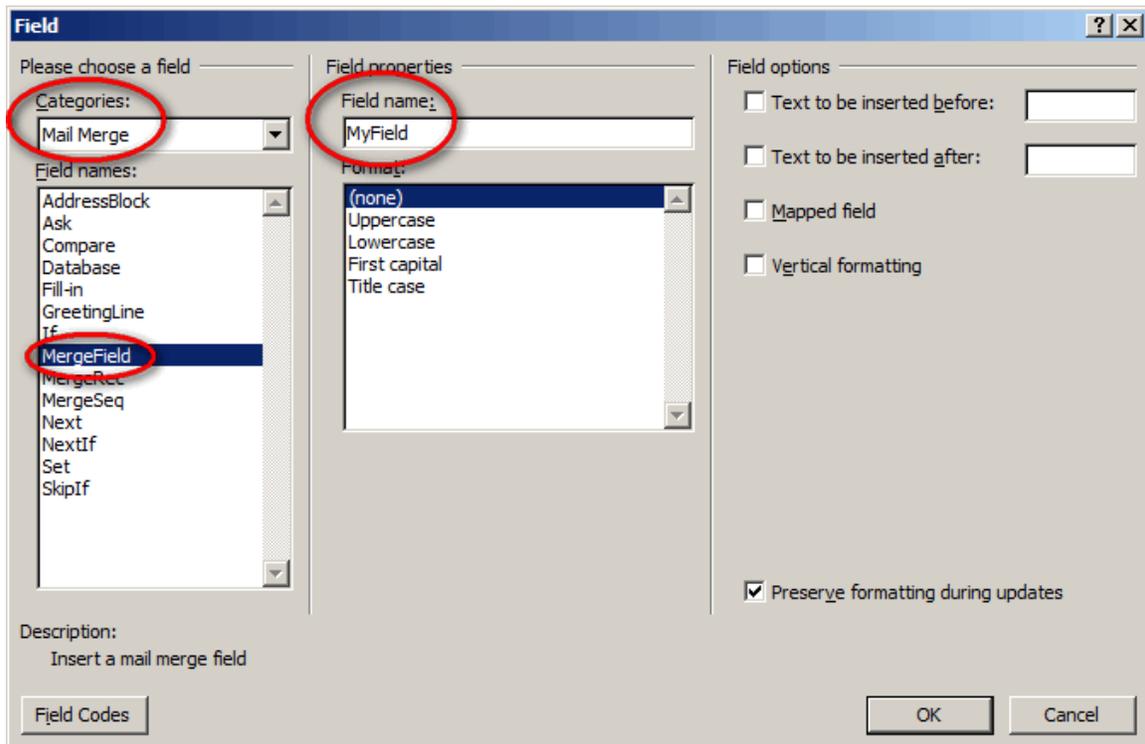
Mail merge fields serve as data placeholders. Field names should match data field names in the data source.

To insert a mail merge field in Microsoft Word:

1. Open your document in Microsoft Word.
2. Select the **Insert** tab of the Ribbon.



3. Select **Field...** from **Quick Parts** drop-down menu to open the **Field** dialog.
4. From the **Field names** list, select **MergeField**.
5. In the **Field name** text box, enter a name for the merge field and press **OK**.



Now you have a new merge field placed in your document. Microsoft Word shows it like this:

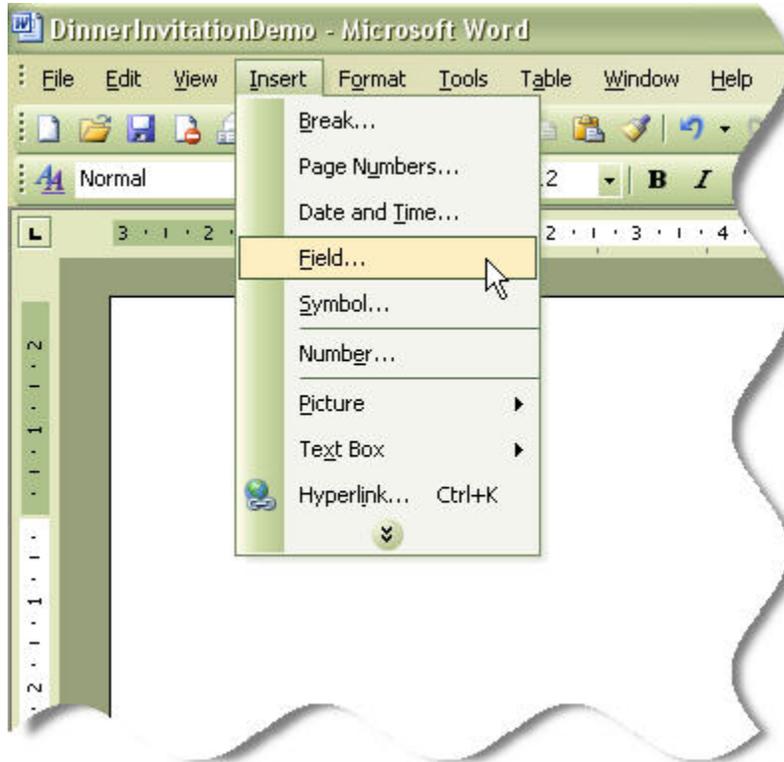


Of course, since a merge field is a regular Microsoft Word field, you can switch between displaying field codes and results in your document in Microsoft Word using the keyboard shortcut Alt+F9. Field codes appear between curly braces:

{MERGEFIELD MyField * MERGEFORMAT }

You can edit merge field name and format switches if needed.

To open the **Field** dialog in Microsoft Word 2003, you need to open the **Insert** menu and select **Field...** item.



An example of a tabular template with multiple field codes.

Company	Contact
«TableStart:Customers» «Company Name»	«Contact Title» «Contact Name» «TableEnd:Customers»

Merge Regions

Every merge field in a report template must belong to a **region**. A region corresponds to a table in the report data source. A region also marks the part of the template, which is repeated for every data row in that table.

To specify a merge region in a document you need to insert two merge fields to mark the beginning and the end of the region.

To mark the beginning of a merge region, insert a merge field with the name *TableStart:MyTable*, where *MyTable* corresponds to the name of the table. To mark the end of the merge region insert

another merge field with the name *TableEnd:MyTable*. Between these marking fields, place merge fields that correspond to the fields of your data source (table columns). These merge fields are populated with data from the first row of the data source, then the whole region is repeated, and the new fields are populated with data from the second row, and so on.

Follow these simple rules when marking a region:

- *TableStart* and *TableEnd* fields must be inside the same section in the document.
- If used inside a table, *TableStart* and *TableEnd* must be inside the same row in the table.
- You should always have a pair of matching *TableStart* and *TableEnd* fields with the same table name.
- You can nest one region inside the other. In this case, the inner region should end before the outer region ends. Use the [Relations](#) element to describe table relationships in report the data source definition.

Here is an example of a region in a report template:

<i>Product Name</i>	<i>Product ID</i>	<i>Quantity Per Unit</i>	<i>Unit Price</i>
«TableStart:Products» «ProductName»	«ProductID»	«QuantityPerUnit»	«UnitPrice» «TableEnd:Products»
+ 1 Chai	10 boxes x 20 bags	\$18,00	
+ 2 Chang	24 - 12 oz bottles	\$19,00	
+ 24 Guaraná Fantástica	12 - 355 ml cans	\$4,50	
+ 34 Sasquatch Ale	24 - 12 oz bottles	\$14,00	
+ 35 Steeleye Stout	24 - 12 oz bottles	\$18,00	
38 Côte de	12 - 75 cl bottles	\$263,50	
39		\$18,00	

You can see a merge region defined for populating with data from the Products table. Note that both the marking fields *TableStart:Products* and *TableEnd:Products* are placed inside the same row of the Word table.

After the report is filled with data, here is the result:

<i>Product Name</i>	<i>Product ID</i>	<i>Quantity Per Unit</i>	<i>Unit Price</i>
Chai	1	10 boxes x 20 bags	\$18.00
Chang	2	24 - 12 oz bottles	\$19.00
Guaraná Fantástica	24	12 - 355 ml cans	\$4.50
Sasquatch Ale	34	24 - 12 oz bottles	\$14.00
Steeleye Stout	35	24 - 12 oz bottles	\$18.00
Côte de	38	12 - 75 cl bottles	\$263.50
	39		\$18.00

Nested Regions

You can use nested regions when there is a relationship between data tables in the data source. Here is an example of a report template for listing product by categories. There are two tables: **Products** and **Categories** linked by **CategoryID** field. The outer region is for category description and the inner region lists products for each category:

«TableStart:Categories»«CategoryName»

«Description»

Product Name	Unit Price
«TableStart:Products»	«UnitPrice»
«ProductName»	«TableEnd:Products»

«TableEnd:Categories»

The result is products grouped by categories:

Product Name	Unit Price
Chai	\$18.00
Chang	\$19.00
Guaraná Fantástica	\$4.50
Sasquatch Ale	\$14.00
Steeleye Stout	\$18.00
Côte de Blaye	\$263.50
Chartreuse verte	\$18.00
Ipoh Coffee	\$46.00
Laughing Lumberjack Lager	\$14.00
Outback Lager	\$15.00
Rhönbräu Klosterbier	\$7.75
Lakkalikööri	\$18.00

Beverages

Soft drinks, coffees, teas, beers, and ales

Condiments

Sweet and savory sauces, relishes, spreads, and seasonings

Product Name Unit Price
Aniseed Syrup \$10.00

Chocolate

Maxilaku

Valkoinen suklaa

Tarte au sucre

Scottish Longbread

Dairy Products

Cheeses

Product Name

Queso Cabrales

Queso Manchego La

Gorgonzola Telino

Mascarpone Fabioli

Geitost

Raclette Courdavau

Camembert Pierrot

Gudbrandsdalsost

Fløtemysost

Mozzarella di Giova

Grains/Cereals

See how to define related tables in a report data source in the [TableRelation](#) element description.

Merge Fields for Inserting Images

You can insert images from a data source in the report. Image merge fields must have the names starting with **Image:** in the report template. The name part after colon should match data source field (table column) with the image data, just like the names of the other merge fields.

A report template with an *Image:* merge field.

Northwind Employees	
Employee Details	Photo
«TableStart:Employees»First Name: «FirstName»	«Image:PhotoBLOB»«TableEnd:Employees»

An employee photo is inserted in the report instead of the *Image:* merge field.

Northwind Employees	
Employee Details	Photo
First Name: Nancy Last Name: Davolio Title: Sales Representative Address: 507 - 20th Ave. E. Apt. 2A City: Seattle Region: Country: USA	
First Name: Andrew	

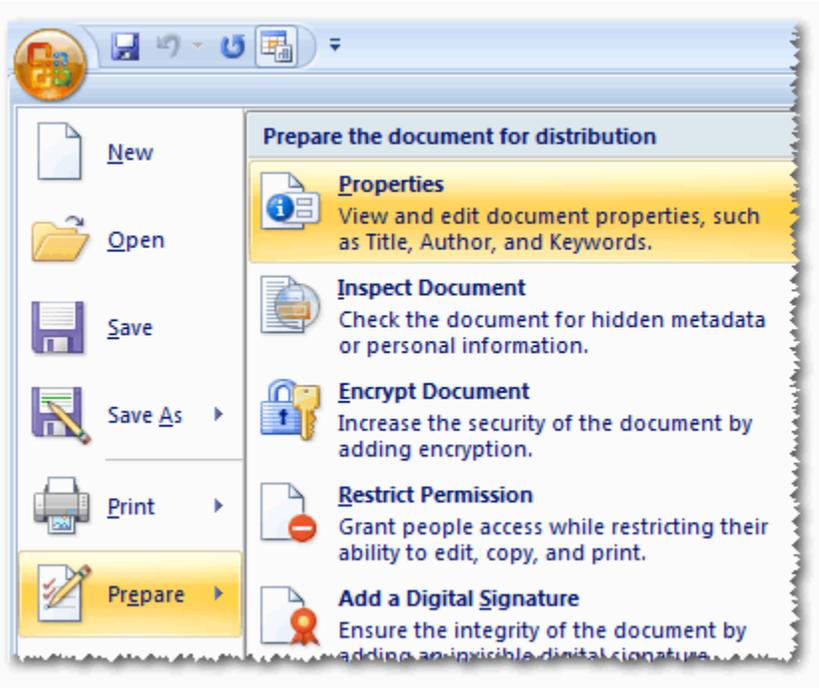
Linking Report Template with Report Definition

A report template does not have a description of data source connection inside. Instead, there is a link to a report definition file stored in a SharePoint document library. Report definition is an XML file, which describes things like data source connection details, queries to retrieve data, report parameters, data relationships and so on.

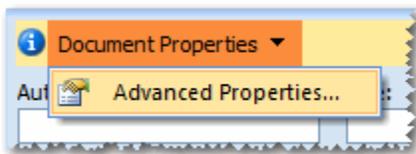
You should store the link to the report definition in a custom document property named **Aspose.Words.SharePoint.ReportUrl**. To edit this property, follow these steps for Microsoft Word 2007 (see below for the slightly different steps in Microsoft Word 2010):

1. Open a report template in Microsoft Word.

2. Select **Prepare** and **Properties** from the **Office** Button menu.

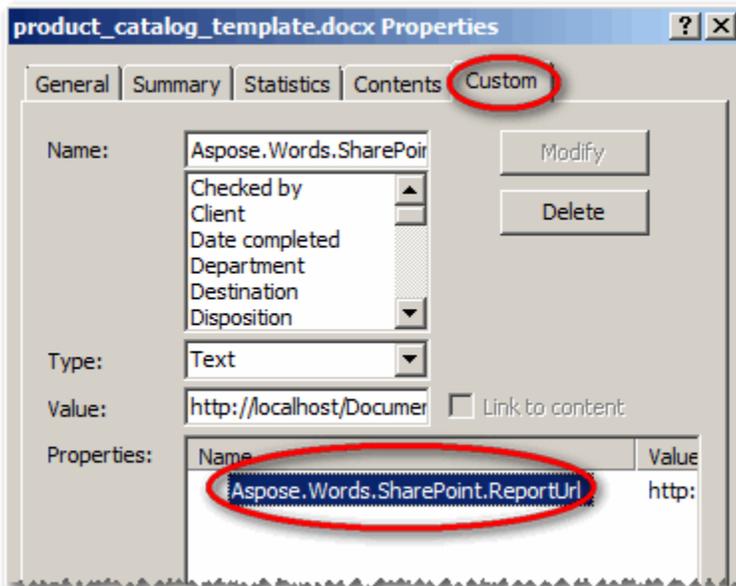


3. Select **Advanced Properties** from the **Document Properties** drop down menu to open the document properties dialog.

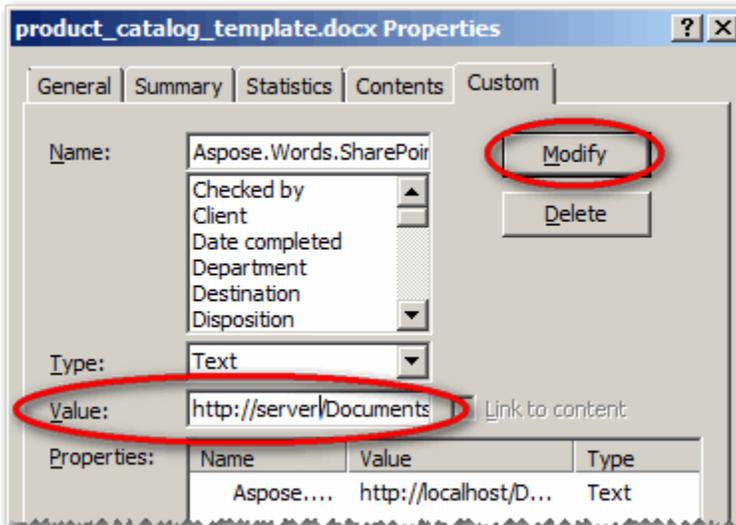


4. In the document properties dialog, select **Custom** tab.

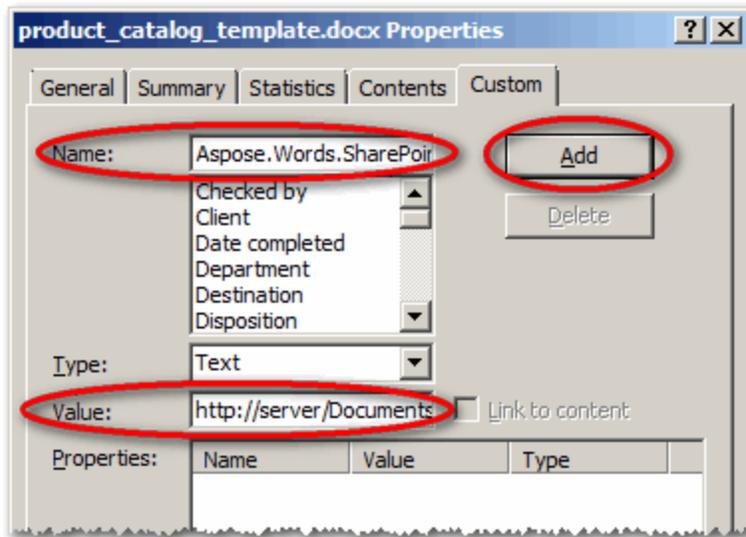
5. Select **Aspose.Words.SharePoint.ReportUrl** property from the properties list.



6. Edit the report definition URL in the in the **Value** field. On changing the value, **Modify** button becomes enabled. Press it to save the changes.

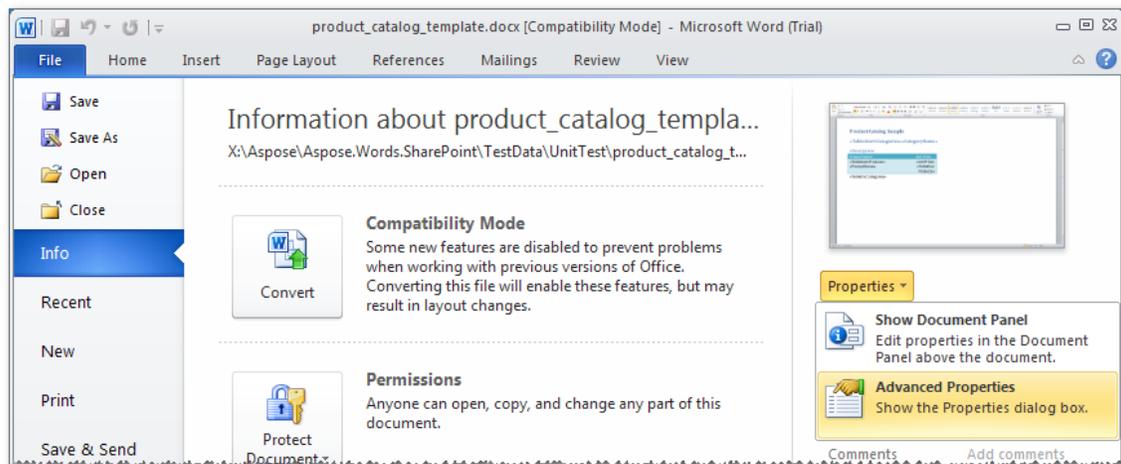


If there is no **Aspose.Words.SharePoint.ReportUrl** property, you can add it in the same dialog by typing the name in the **Name** field, editing **Value** and then pressing **Add** button.



The steps to get to the document properties dialog are slightly different for Microsoft Word 2010.

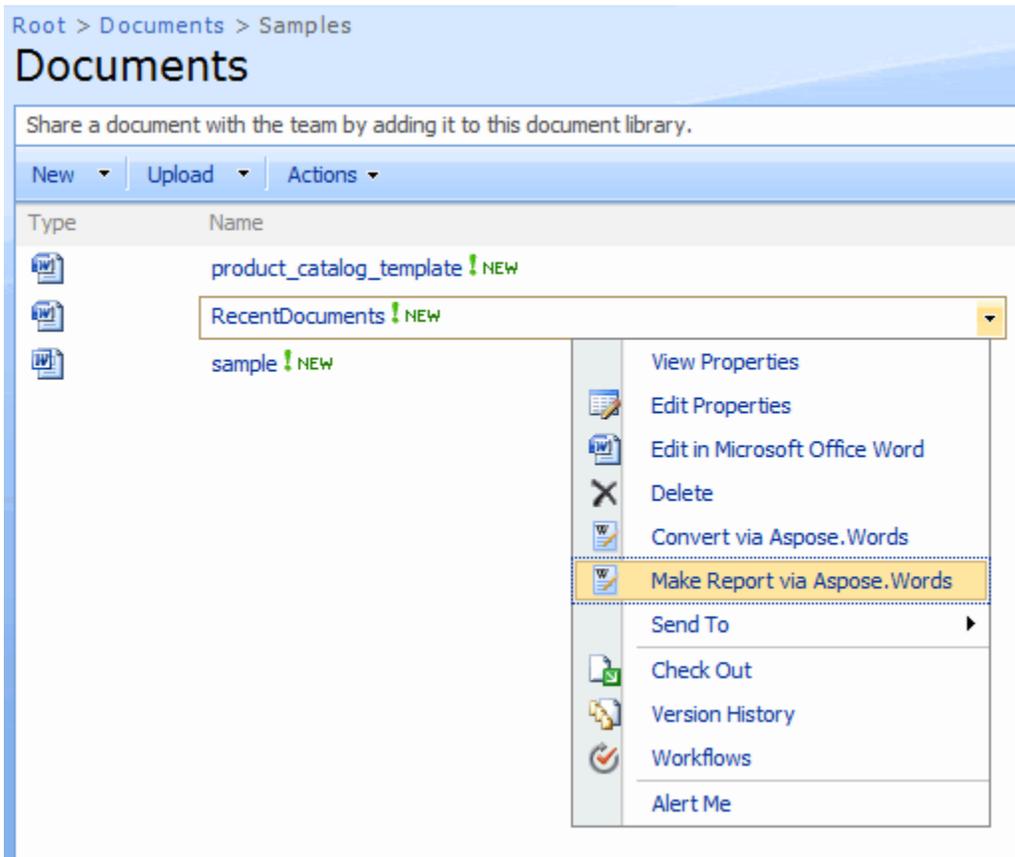
1. Select the **File** tab and then **Advanced Properties** from the **Properties** drop down menu on the **Info** tab.



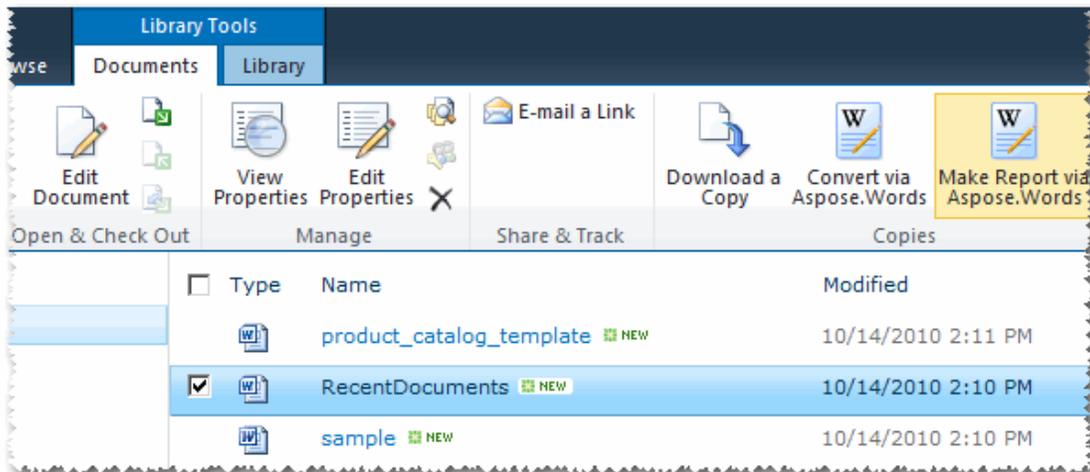
2. This will produce the document properties dialog. Follow the steps for Word 2007 above starting from step 4.

User Interface

To make a report, select a report template in a SharePoint document library and click **"Make Report via Aspose.Words"** item in the template's Edit Control Block.



In SharePoint 2010, you can use **"Make Report via Aspose.Words"** button on the ribbon as well. The button is active when you select a single file.



This will lead you to the report settings screen. The following options are available:

- If the report has parameters, **"Parameters"** section is present. Enter the required parameter values of the appropriate type.
- Select the destination format with the **"Save as"** radio button list.

- Enter the destination file name in the "**Destination file**" edit box. By default, Aspose.Words for SharePoint prepopulates this field with the name of the report template file. The extension is added automatically depending on the selected format.
- Enter the URL of the destination library folder in the "**Destination folder**" edit box. It can be a folder in a different site collection. The default value is where the report template is located.
- Check the "**Overwrite existing files in the destination folder**" checkbox to replace an existing file with the report in case of name clash. By default, existing files are not overwritten. If this box is checked:
 - When the destination library has versioning enabled, a new file version is added for a conflicting file.
 - When versioning is not enabled for the destination library, an existing file with a conflicting name is overwritten.
- Click "**Save Report**" to build and save the report.
- Click "**Cancel**" button to go back to the document library.

Report settings screen.

Site Actions Test user

Root > Aspose.Words for SharePoint Report Settings version 2.0.0.0 [contact support](#)

Home Search this site...

Libraries
Documents
Lists
Tasks

Report Properties
The selected report properties are listed on the right.

Report Parameters
Enter values for the report parameters.

Destination File
Specify report file format and location.

Report template:
[RecentDocuments.docx](#)

Report definition file:
[sql_par_date_sample.arpt](#)

Data source definition file:
[test_ds.adsd](#)

Select the documents created on or after this date:
10/1/2010 12 AM 00

Save as:
 PDF - Adobe Portable Document
 DOCX - Office Open XML
 DOC - Microsoft Word 97 - 2003 Document
 RTF - Rich Text
 MHT - Web Page Archive
 TXT - Plain Text
 XML - Microsoft Word 2003 WordprocessingML
 XML - Flat OPC
 ODT - OpenDocument
 EPUB - IDPF Digital Book
 XPS - XML Paper Specification

Destination file:
RecentDocuments.pdf

Destination folder:
/Documents/Samples

Overwrite existing files in the destination folder

Checking *Overwrite existing files in the destination folder* will overwrite the destination file if it already exists. If this checkbox is not checked, the generated report will not be saved if the file with the specified name already exists in the destination folder.

Save Report Cancel

After saving the report, another screen is presented. It lists the options and parameters used. You can return to the library where the report template is located, go to the destination library or use the hyperlink to open the saved report.

Site Actions Test user

Root > Aspose.Words for SharePoint Report Settings version 2.0.0.0 [contact support](#)

Home Search this site...

Libraries
Documents
Lists
Tasks

Report Properties
The selected report properties are listed on the right.

Report Parameters
Report parameter values are listed on the right.

Destination File
Report saving settings are listed on the right.

Report template:
[RecentDocuments.docx](#)

Report definition file:
[sql_par_date_sample.arpt](#)

Data source definition file:
[test_ds.adsd](#)

Select the documents created on or after this date:
10/1/2010 12 AM 00

Save as:
PDF - Adobe Portable Document

Destination file:
[RecentDocuments.pdf](#)

Destination folder:
/Documents/Samples

Overwrite existing files in the destination folder

Return to [Source Library](#) [Destination Library](#)

Report Definition File

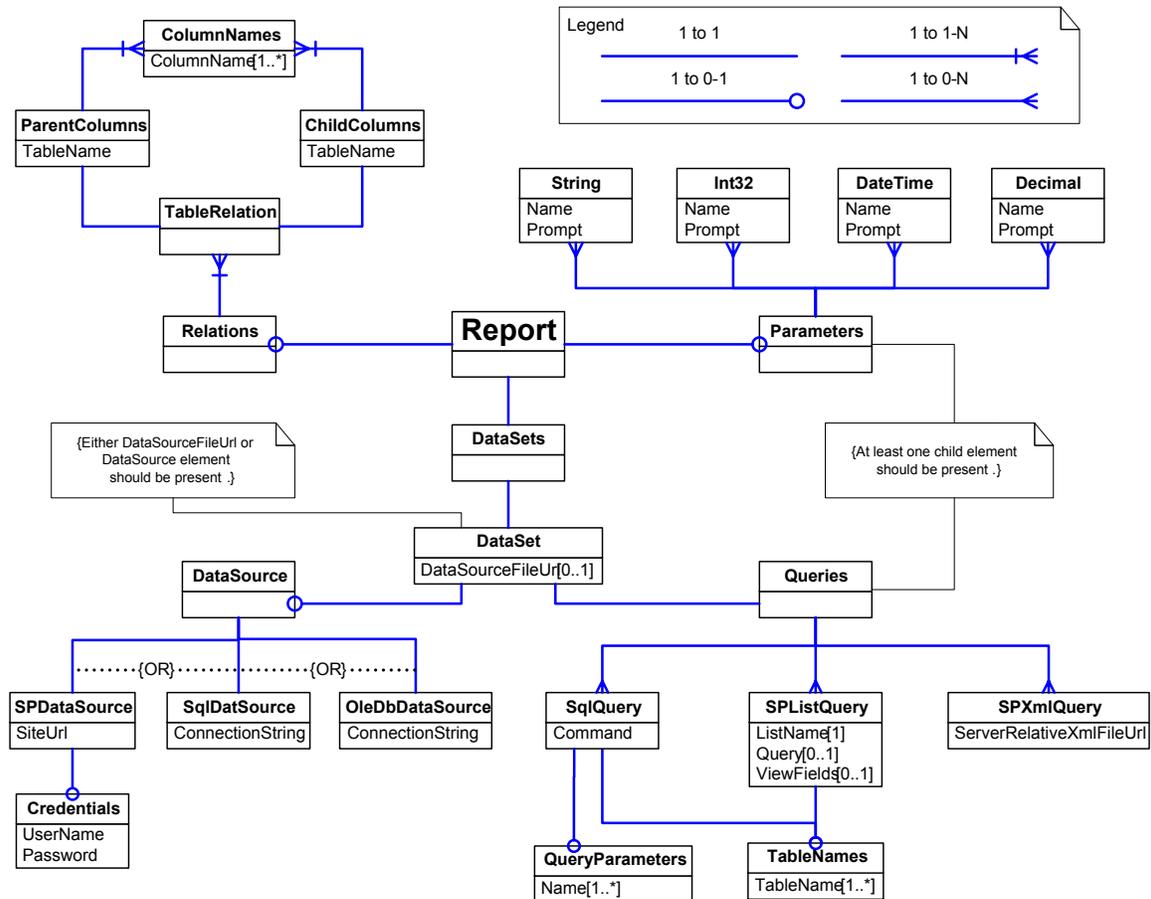
Report definition file is an XML file that describes all about report that report template does not do. That is, it defines everything except the visual report layout. This includes:

- Data source connection properties.
- Queries to retrieve the data.
- Relationships between data tables returned by different queries.
- Report parameters.

A [report template](#) must have a link to the report definition file.

If you are designing report for Aspose.Words for SharePoint, you need to create the report definition file. Currently, there is no tool for report definition editing, so you have to edit raw XML. You can look at report definition file as a configuration file where you specify all the details of data retrieving rather than coding them with Aspose.Words API. As far as you do not need a fine level of control that Aspose.Words class library offers, Aspose.Words for SharePoint may be more suitable.

Report definition schema diagram.



Look at the report definition diagram. The main section is **DataSets** that describes data source connection details and queries to retrieve the data. A report can combine data from several queries and have several data source connection. For example, it is possible to get a query result from an SQL database and combines it with list items from a SharePoint list. If the data returned by different queries are related, you describe it in the **Relations** section. The **Parameters** section is for report parameters description.

All elements used in the report definition are defined in <http://www.aspose.com/Words/SharePoint/Reporting> XML namespace.

Either the elements have child elements or a value stored in as text element content. Elements having child elements do not use text content in the report definition.

When the element has text content as a value, leading and trailing whitespace is trimmed from the text before usage. Consider this element:

```
<TableName>MyTable</TableName>
```

It has the same value ("MyTable") as the element below.

```
<TableName>
    MyTable
</TableName>
```

Report definition schema file (Report.xsd) and data source definition schema file (DataSource.xsd) are included in the installation package for you reference.

Report Element

The **Report** element is the root element of the report definition. It can have the following child elements:

Name	Cardinality	Has Children	Description
DataSets	1	Yes	Describes connections to data sources and queries to obtain the data for this report.
Relations	0-1	Yes	Describes relations between data tables returned by different queries.
Parameters	0-1	Yes	Report parameters.

DataSets Element

The **DataSets** element contains information about connections to the data sources and queries to retrieve the data for the report.

Name	Cardinality	Has Children	Description
DataSet	1-N	Yes	Describes a connection to a data source and queries to get the data from this data source.

DataSet Element

The **DataSet** element contains information about a connection to a data source and queries to get the data for the report from this data source.

You describe data source connection properties inside **DataSource** element.

Alternatively, you can store data source connection description in a separate XML file on the same SharePoint farm. This way you can share the same data source connection description between many reports, and update it only once when needed. The **DataSourceFileUrl** element points to the data source description file. The schema of a separate data source description is a subset of the report definition schema with the **DataSource** element at the root level. Data source definition schema file (DataSource.xsd) is included in the installation package for you reference.

Name	Cardinality	Has Children	Description
DataSource	0-1	Yes	Describes a connection to a data source. Either this element or DataSourceFileUrl must be present.
DataSourceFileUrl	0-1	No	Data source description file URL. Either this element or DataSourceFileUrl must be present.

Queries	1	Yes	Queries to get the report data from the specified data source.
---------	---	-----	--

DataSource Element

The **DataSource** element contains information about a connection to a data source.

Only one child element from the table below is allowed. The child element defines the data source connection type.

Name	Cardinality	Has Children	Description
SqlDataSource	1	Yes	Describes a connection to a Microsoft SQL Server database.
OleDbDataSource	1	Yes	Describes a connection to a data source via OLE DB provider.
SPDataSource	1	Yes	Describes a connection to a SharePoint server.

SqlDataSource Element

This element contains information about a connection to a Microsoft SQL server database. .Net SqlClient is used for the connection. You can use it only with **SqlQuery** elements to define queries.

Please note that storing database user name and password in the connection string may be insecure.

Name	Cardinality	Has Children	Description
ConnectionString	1	No	Data source connection string. It must not be empty.

OleDbDataSource Element

This element contains information about a connection to a relational database via OLEDB provider. You can use it only with **SqlQuery** elements to define queries.

Please note that storing database user name and password in the connection string may be insecure.

Name	Cardinality	Has Children	Description
ConnectionString	1	No	Data source connection string. It must not be empty.

SPDataSource Element

This element contains information about a connection to a SharePoint server. You can use it with **SPListQuery** or **SPXmlQuery** to get data from a SharePoint server.

Name	Cardinality	Has Children	Description
SiteUrl	1	No	Full SharePoint site URL, including http://server:port part. It must not be empty.
Credentials	0-1	Yes	Defines user name and password to use for connecting to a SharePoint server. Omit it to use the current user credentials.

Credentials Element

The **Credentials** element contains information about user name and password to use for connecting to a SharePoint site. You can omit it to use the current user credentials.

Please note that storing user name and password in a report definition file may be insecure.

Name	Cardinality	Has Children	Description
UserName	1	No	User name for connecting to a SharePoint server.
Password	1	No	Password for connecting to a SharePoint server.

Queries Element

The **Queries** element contains information about queries for retrieving report data from the data source. It must contain at least one of the elements from the table below. Use **SqlQuery** with **SqlDataSource** or **OleDbDataSource**. Use **SPListQuery** or **SPXmlQuery** with **SPDataSource**. Other combinations are not supported.

At least one of the child elements should be present.

Name	Cardinality	Has Children	Description
SqlQuery	0-N	Yes	Describes an SQL query to a relational database.
SPListQuery	0-N	Yes	Describes a CAML query to a SharePoint list.
SPXmlQuery	0-N	Yes	Describes XML data file location in a SharePoint document library.

SqlQuery Element

The **SqlQuery** element contains information about an SQL query for retrieving report data from a relational database. Use it with **SqlDataSource** or **OleDbDataSource**.

Command can include parameter placeholders. However, the placeholder syntax is different for **SqlDataSource** and **OleDbDataSource**.

For **SqlDataSource** query, use parameter names starting with "@"". Parameter values are substituted by name. Parameter names must match report parameters described in the **Parameters** element. See how to use parameter placeholders for **SqlDataSource** on [MSDN](#).

For **OleDbDataSource**, use "?" as a parameter placeholder. Parameters are substituted in the order they are listed in the **QueryParameters** element or in **Parameters** element if **QueryParameters** is missing. See how to use parameter placeholders for **OleDbDataSource** on [MSDN](#).

Name	Cardinality	Has Children	Description
TableNames	0-1	Yes	Describes table names to assign to the tables returned by the query.
QueryParameters	0-1	Yes	Sets the order of report parameters used in the query.
Command	1	No	SQL command to get report data from the data source. It must not be empty.

TableNames Element

The **TableNames** element describes how to name the tables returned by its parent query. Use it to match queries with report regions designated by **TableStart:** and **TableEnd:** merge fields in the report template.

Names are assigned to the tables returned by the query in the order they go inside the **TableNames** element. However, normally one query returns only one table.

Name	Cardinality	Has Children	Description
------	-------------	--------------	-------------

TableName	1-N	No	Table name. It must not be empty.
-----------	-----	----	-----------------------------------

QueryParameters Element

The **QueryParameters** element set the order in which parameters are substituted in a query. It is useful for queries to OleDbDataSource, because they substitute parameters by order.

Use parameter names defined in the **Name** element inside **Parameter** element.

Name	Cardinality	Has Children	Description
Name	1-N	No	Parameter name. It must match a parameter name defined in the Parameters element.

SPListQuery Element

The **SPListQuery** element contains information about CAML query for retrieving report data from a SharePoint list. Use it with **SPDataSource**.

Use the **ListName** element to set the name of the list to query. Use the **SiteUrl** element of the data source to specify subsite if needed.

Set CAML query via the **Query** element. It is best to wrap the element contents in ![CDATA[]] for readability as CAML query is in XML. The same is true for the **ViewFields** element.

In a CAML query, parameters are substituted by name. An entire element inside the query must match a parameter name listed in the **Parameters** element.

If CAML query is not specified, all elements in the list are retrieved.

CAML queries are executed via Lists.asmx web service so the returned field names are often prefixed with "ows_". See CAML query schema description on [MSDN](#).

The queries are executed recursively, traversing subfolders of the list.

Please note that a bunch of fields is always returned regardless of the **ViewFields** element. This is the behavior of the SharePoint Lists web service.

Name	Cardinality	Has Children	Description
TableNames	0-1	Yes	Describes table names to assign to the tables returned by the query.
ListName	1	No	The name of the list from where to retrieve data. It must not be empty.
Query	0-1	No	CAML query to get filter and order the list items.
ViewFields	0-1	No	Describes which columns to get from the list.

Here is an example of the report with the **SPListQuery** element:

```
<Report xmlns="http://www.aspose.com/Words/SharePoint/Reporting" >
  <DataSets>
    <DataSet>
      <DataSource>
        <SPDataSource>
          <SiteUrl>http://localhost</SiteUrl>
        </SPDataSource>
      </DataSource>
      <Queries>
        <SPListQuery>
          <TableNames>
            <TableName>Docs</TableName>
          </TableNames>
          <ListName>Documents</ListName>
          <Query><![CDATA[
```

```

    <Where>
      <Contains>
        <FieldRef Name='FileLeafRef' />
        <Value Type='Text'>s</Value>
      </Contains>
    </Where>
  ]></Query>
  <ViewFields><![CDATA[
    <FieldRef Name='FileLeafRef' />
    <FieldRef Name='ID' />
  ]]></ViewFields>
</SPListQuery>
</Queries>
</DataSet>
</DataSets>
</Report>

```

Note that internal field names like **FileLeafRef** are used inside the query. However, Lists web service returns, **FileLeafRef** field as **ows_FileLeafRef**. And it returns about 15 fields instead of just two mentioned in the **ViewFields** element.

SPXmlQuery Element

The **SPListQuery** element contains information an XML data file. This is not actually a query. It just specifies the location of an XML data file via server relative URL. The data file is just converted to a data set by using the .Net [System.Data.DataSet.ReadXml\(\) method](#) with inferred schema

The **TableNames** element is allowed inside **SPXmlQuery** by the schema but will be ignored when retrieving data.

There is no way to use parameters with **SPXmlQuery**.

The XML data file referenced by the query is retrieved via SharePoint object model. Currently there is no way to get a file from a SharePoint farm other than the current farm with **SPXmlQuery**.

The **Credentials** element of the **SPDataSource** element is ignored when getting data via **SPXMLQuery**. The current user context is always used.

Name	Cardinality	Has Children	Description
ServerRelativeXmlFileUrl	1	No	Server relative URL of an XML data file.

Relations Element

The **Relations** element contains information about table relations in the report data. Each query returns on or more data tables in a data set. This data set is merged with data sets returned by the other queries. In order to make the nested regions in the report template to work, you have to specify the relations between tables inside the report data set.

Name	Cardinality	Has Children	Description
TableRelation	1-N	Yes	Describes a relation between two tables in the report data set.

TableRelation Element

The **TableRelation** element contains information a parent-child relation between two tables in the report data set.

Name	Cardinality	Has Children	Description
ParentColumns	1	Yes	Describes the parent side of the relation.
ChildColumns	1	Yes	Describes the child side of the relation.

ParentColumns Element

The **ParentColumns** element contains information about columns that make a parent side of the relation between two tables in the report data set.

Name	Cardinality	Has Children	Description
TableName	1	No	Parent table name. Must match a table name set in a TableName element for a query.
ColumnNames	1	Yes	Lists the names of the columns that form the parent side of the relation.

ColumnNames Element

The **ColumnNames** element contains information about columns names in a table relation description.

Name	Cardinality	Has Children	Description
ColumnName	1-N	No	Column name in a table specified by .a ParentColumns or ChildColumns element.

ChildColumns Element

The **ChildColumns** element contains information about columns that make a child side of the relation between two tables in the report data set.

Name	Cardinality	Has Children	Description
TableName	1	No	Child table name. Must match a table name set in a TableName element for a query.
ColumnNames	1	Yes	Lists the names of the columns that form the child side of the relation.

Parameters Element

The **Parameters** element contains information about report parameters.

Aspose.Words for SharePoint requests the parameter values from a user when making a report via user interface. When generating controls for entering parameters, it takes parameter type into account.

You set the parameters through the API when making a report programmatically.

Name	Cardinality	Has Children	Description
String	1-N	Yes	Describes a string report parameter.
Int32	1-N	Yes	Describes a 32-bit integer report parameter.
DateTime	1-N	Yes	Describes a report parameter for representing date and time values.
Decimal	1-N	Yes	Describes a decimal report parameter.

Parameter Elements

Currently **String**, **Int32**, **DateTime** and **Decimal** parameter elements all have the same child elements.

However, parameter data type, specified by the element name is important. Aspose.Words for SharePoint uses is to generate controls for parameter entering. Parameter type also affects how the supplied values are converted when passed to queries.

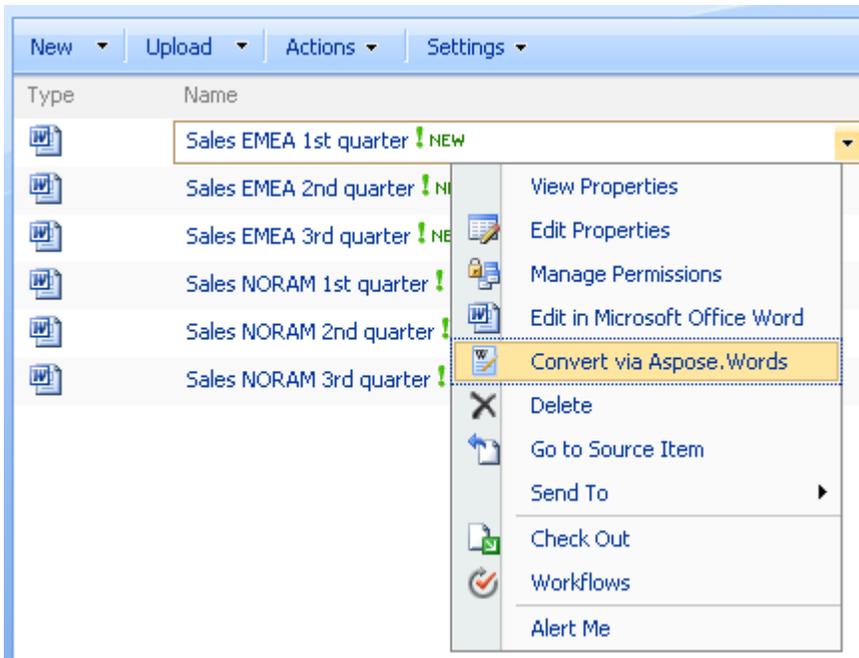
Name	Cardinality	Has Children	Description
Name	1	No	Parameter name to use in query elements like Command in SqlQuery and Query in SPListQuery .
Prompt	1	No	Parameter description to display next to a control generated for entering the parameter in the user interface.

Document Conversion

Convert One File

To convert a particular document in a document library please choose "Convert via Aspose.Words" item in the document's Edit Control Block (ECB).

Selecting "Convert via Aspose.Words" item in the document's ECB.



This will lead you to conversion settings screen that allows tuning of the following options:

"**Convert to**" radio button list selects desired destination file format.

"**Destination file**" edit box allows entering the name of destination file. By default, Aspose.Words for SharePoint prepopulates this field with the name of the source file. But you can change it if needed. The extension is added automatically depending on the selected format.

"**Destination folder**" edit box allows entering the URL of the document library or folder where you would like to place the converted file. It can be a folder in the current document library, another library within the current site collection or even library or folder in a different site collection. You can always type a path to the destination folder directly in the edit box, but it may be more convenient to select the destination folder using a graphical view of the sites and lists hierarchy provided by the Browse button ("...") placed next to the edit box. Only document libraries and folders where the current user can add and edit items are selectable in the Browse dialog.

"**Save destination folder**" check box will save your selection and prepopulate Destination folder field upon next conversion session. This option saves URLs independently for different users. Moreover, as destination folder is stored at the site collection level you will have different

destination folders prepopulated when starting conversion from, for example, a personal site and from a corporate site.

“Overwrite existing files in the destination folder” check box defines what should be done in case when destination file already exists. By default, conflicting files are skipped during conversion. Checking “Overwrite existing files” option will change the default behavior:

- If destination library has versioning enabled, a new file version is added for a conflicting file.
- If versioning is not enabled for the destination library, an existing file with a conflicting name is overwritten.

“Convert” button launches conversion process.

“Cancel” button gets you back to the library and dismisses all changes in settings.

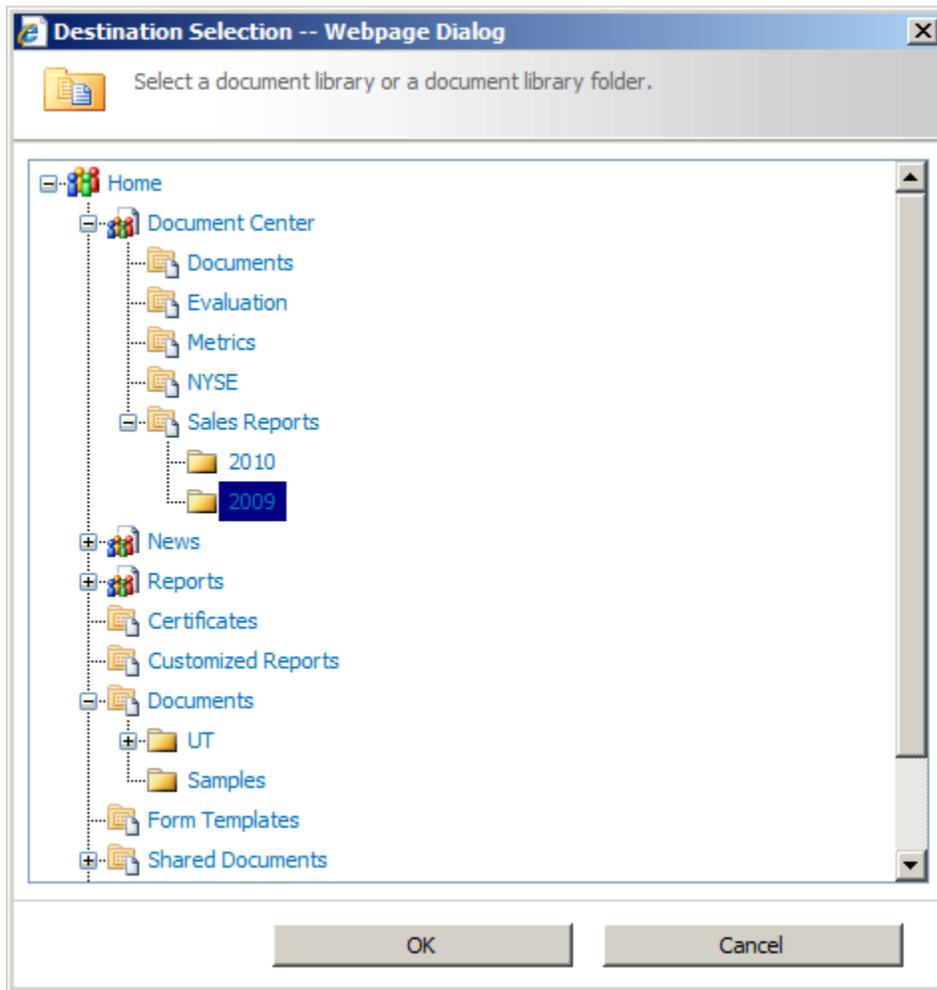
Conversion Settings screen for one file conversion.

Home > Document Center > Aspose.Words for SharePoint version 1.0.0.0
[contact support](#)

Aspose.Words for SharePoint Conversion Settings

Source Files The file on the right will be converted to the selected format.	Source file(s) to convert: /Docs/Sales reports/2009/Sales EMEA 1st quarter.doc Convert to: <input checked="" type="radio"/> PDF - Adobe Portable Document <input type="radio"/> DOCX – Office Open XML <input type="radio"/> DOC - Microsoft Word 97 - 2003 Document <input type="radio"/> RTF - Rich Text <input type="radio"/> MHT - Web Page Archive <input type="radio"/> TXT - Plain Text <input type="radio"/> XML - Microsoft Word 2003 WordprocessingML <input type="radio"/> XML - Flat OPC <input type="radio"/> ODT - OpenDocument <input type="radio"/> EPUB - IDPF Digital Book <input type="radio"/> XPS - XML Paper Specification
Destination Files Specify where the converted file(s) should be stored. Checking <i>Save destination folder</i> will store the destination path for subsequent conversions. Checking <i>Overwrite existing files in the destination folder</i> will overwrite the destination file if it already exists. Unchecking will skip conversion when the converted file has the same name as an existing file in the destination folder.	Destination file: <input type="text" value="Sales EMEA 1st quarter"/> .pdf Destination folder: <input type="text" value="/Docs/Sales reports/2009"/> ... <input type="checkbox"/> Save destination folder <input type="checkbox"/> Overwrite existing files in the destination folder

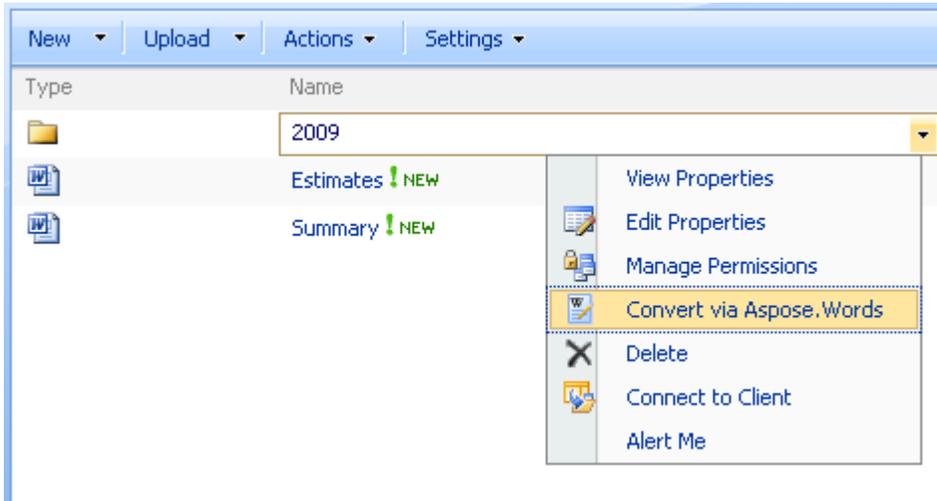
Selecting destination folder using graphical view via Browse button



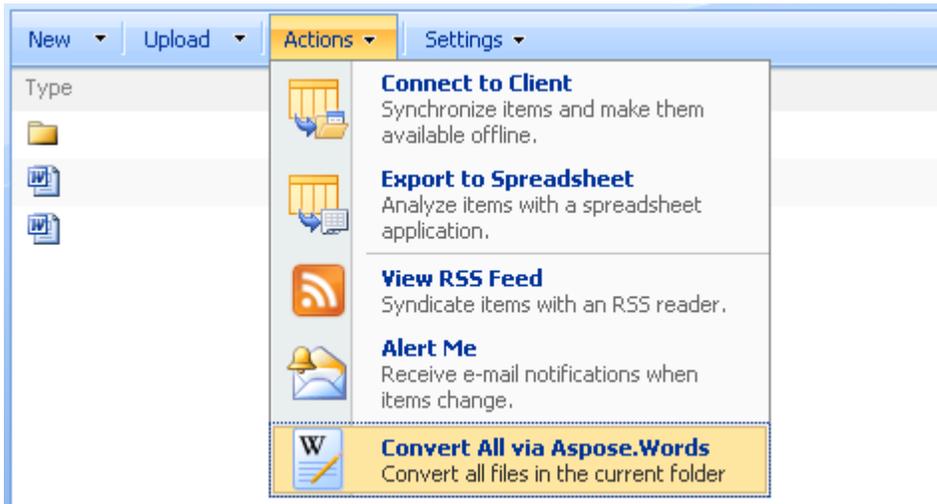
Convert All Files in a Folder

If you want to convert all files in a folder, you can do so either by selecting "Convert via Aspose.Words" option in ECB of desired folder while staying in the parent folder or by selecting "Convert All via Aspose.Words" from the Action menu while staying in the folder itself or in the root of the document library. Whichever way you have chosen, Aspose.Words for SharePoint will try to convert every document in the selected folder or library.

Convert all files in the subfolder.



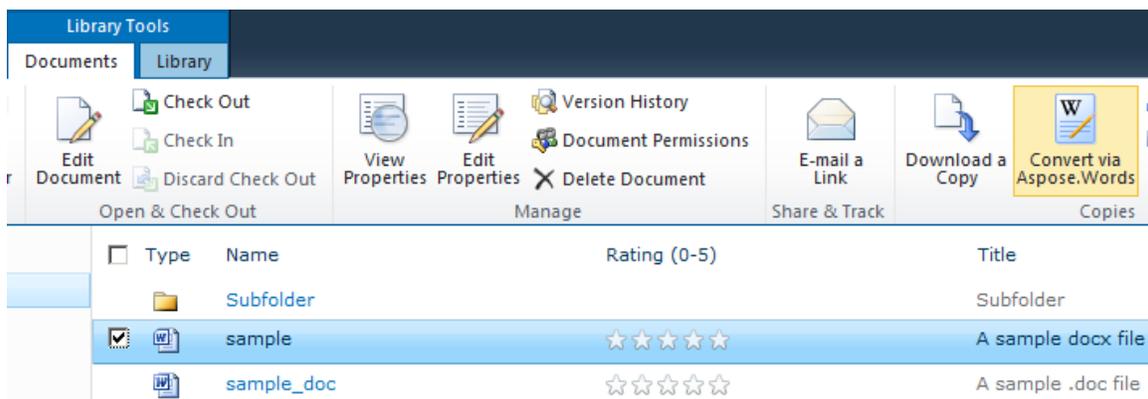
Convert all files in the current folder.



Using Server Ribbon Button under SharePoint 2010

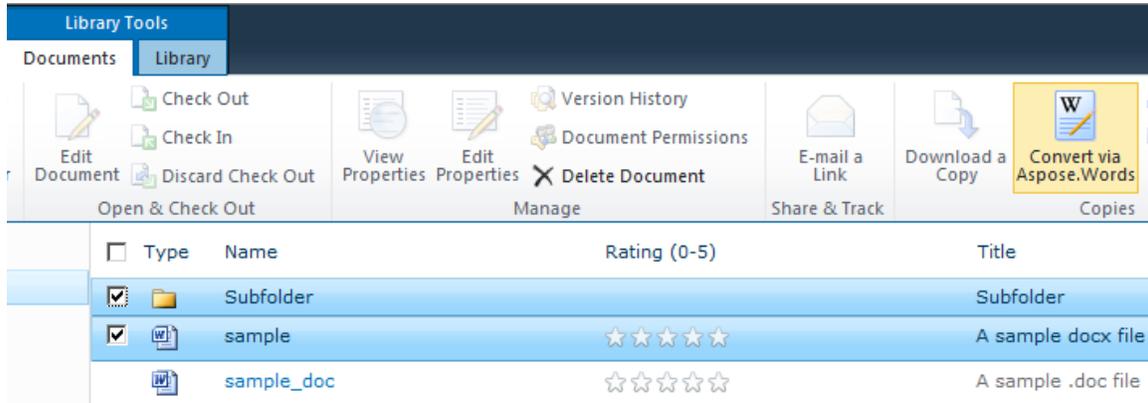
Under SharePoint 2010, server ribbon button is available instead of the custom action menu item used with SharePoint 2007 / WSS 3.

Server ribbon button converts a single file when a single file is selected.



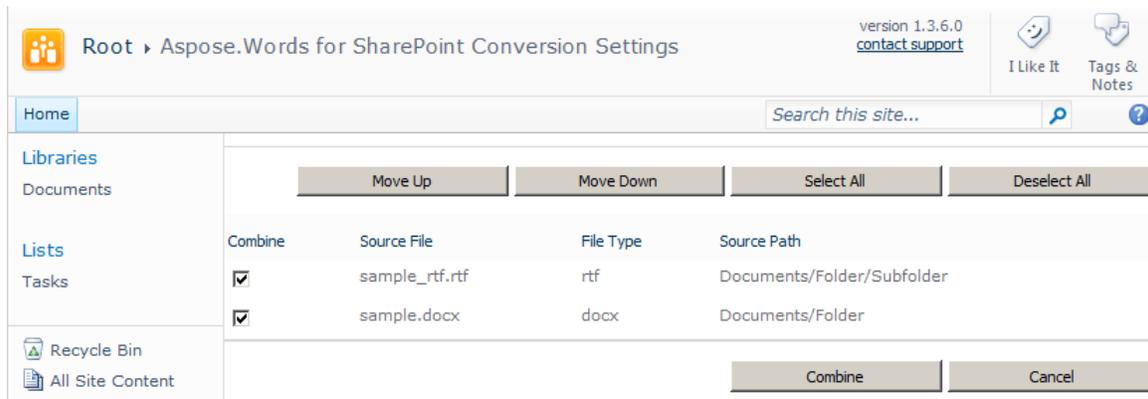
When you select a single file or folder in a document library view, "Convert via Aspose.Words" server ribbon button displays conversion settings page for this item. It works the same way as ECB menu item.

Multiple items selection is supported.



When you select multiple items in a document library view, you can convert or combine selected items only.

The list of files to combine is populated with the files selected in the document library.



If you select no items in a document library view, "Convert via Aspose.Words" ribbon button is disabled.

Conversion Settings screen for multiple files conversion.

Home > Document Center > Aspose.Words for SharePoint version 1.2.0.0
[contact support](#)

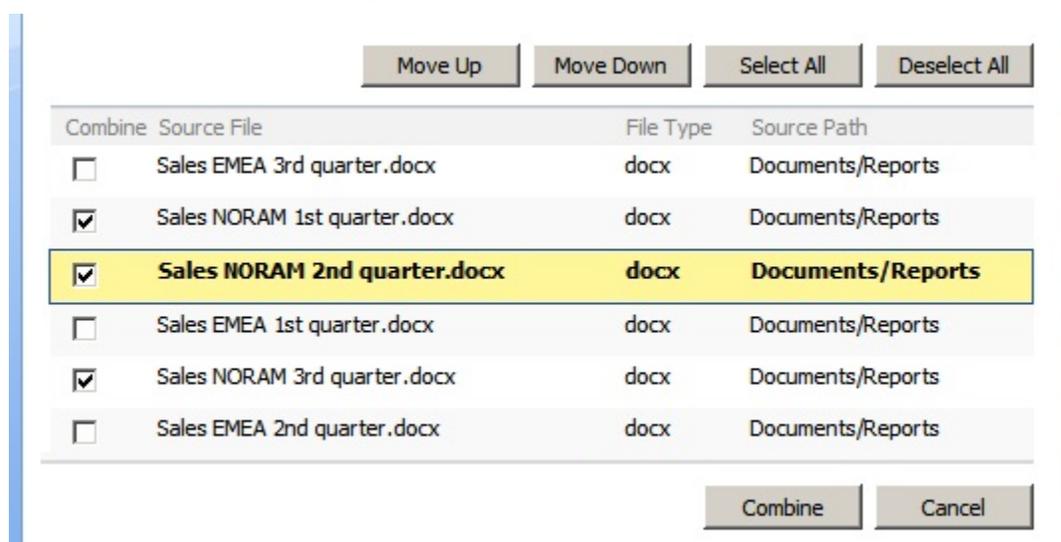
Aspose.Words for SharePoint Conversion Settings

Source Files The folder on the right will be converted to the selected format.	Source file(s) to convert: /Docs/Documents Convert to: <input checked="" type="radio"/> PDF - Adobe Portable Document <input type="radio"/> DOCX - Office Open XML <input type="radio"/> DOC - Microsoft Word 97 - 2003 Document <input type="radio"/> RTF - Rich Text <input type="radio"/> MHT - Web Page Archive <input type="radio"/> TXT - Plain Text <input type="radio"/> XML - Microsoft Word 2003 WordprocessingML <input type="radio"/> XML - Flat OPC <input type="radio"/> ODT - OpenDocument <input type="radio"/> EPUB - IDPF Digital Book <input type="radio"/> XPS - XML Paper Specification <input type="checkbox"/> Convert files in subfolders <input type="checkbox"/> Combine Files
Checking <i>Convert files in subfolders</i> will also include files from subfolders into conversion. Check <i>Combine Files</i> to combine several input files into one. You will be able to select files and set their order on clicking <i>Select Files...</i> button.	
Destination Files Specify where the converted file(s) should be stored.	Destination file: <input type="text" value="combined_file"/> .pdf Destination folder: <input type="text" value="/Docs/Dest"/> ... <input checked="" type="checkbox"/> Save destination folder <input type="checkbox"/> Overwrite existing files in the destination folder
Checking <i>Save destination folder</i> will store the destination path for subsequent conversions. Checking <i>Overwrite existing files in the destination folder</i> will overwrite the destination file if it already exists. Unchecking will skip conversion when the converted file has the same name as an existing file in the destination folder.	

“Convert files in subfolders” check box lets you include all subfolders into conversion. During conversion, Aspose.Words for SharePoint will create the same subfolders tree in the destination folder. This option is for SharePoint 2007 only. Under SharePoint 2010, the subfolders are always processed recursively. To process folder contents without subfolders, just select the needed files in a document library view.

“Combine files” check box lets you combine files into one document. Input files can be in different formats. Setting this check box makes accessible “Select Files...” button that will lead to sequence adjustment screen.

“Select Files” button allows you to adjust combination order.



Conversion results screen

After finishing the conversion, Aspose.Words for SharePoint shows Conversion Results screen having three parts:

- “Conversion Settings” pane shows parameters used during conversion.
- Information string shows the totals of the conversion: overall number of processed files, number of files successfully converted and number of skipped files.
- Results list at the bottom of the page shows individual information for each file processed during conversion. Source Path in this list shows relative path from the folder there the conversion was started. You can sort the information in this list by pressing the title of any column.

After getting familiar with the results, you can return either to the source or to the destination library by pressing corresponding button at the end of the page.

Conversion Results screen.

Home > Document Center > Apose.Words for SharePoint

version 1.0.0.0
[contact support](#)

Apose.Words for SharePoint Conversion Results

Conversion Settings

The conversion was performed using the settings on the right.

Source file(s) to convert:
/Docs/Sales reports

Convert to:
PDF - Adobe Portable Document

Convert files in subfolders

Destination folder:
/Docs/Evaluation/Subfolder

Save destination folder

Overwrite existing files in the destination folder

Conversion is complete. 2 folders were processed. Total file(s): 8. Successfully converted: 4. Skipped: 4.

Source File	Source Path	Status	Message
Summary.doc	Sales reports	Success	
Estimates.doc	Sales reports	Success	
Sales NORAM 3rd quarter.doc	Sales reports/2009	Success	
Sales EMEA 2nd quarter.doc	Sales reports/2009	Skipped	A file with the same name already exists in the destination folder
Sales EMEA 3rd quarter.doc	Sales reports/2009	Success	
Sales NORAM 2nd quarter.doc	Sales reports/2009	Skipped	A file with the same name already exists in the destination folder
Sales NORAM 1st quarter.doc	Sales reports/2009	Skipped	A file with the same name already exists in the destination folder
Sales EMEA 1st quarter.doc	Sales reports/2009	Skipped	A file with the same name already exists in the destination folder

Return to [Source Library](#) [Destination Library](#)

Using Apose.Words for SharePoint in a Workflow

Workflow summary

You can use Apose.Words for SharePoint in SharePoint workflows. After installation you can see two new activities available in SharePoint Designer:

- Convert via Apose.Words
- Make a Report via Apose.Words

Use "Convert via Apose.Words" activity to convert documents between supported formats and store the result in a SharePoint document library. Use "Make a Report via Apose.Words" activity to make a report from a template stored in a SharePoint document library. You can use the output of these activities in other activities.

Converting a Document via Workflow Activity

Let us use SharePoint Designer to create a workflow for converting new documents to the .pdf format and storing the results in another document library.

Select source and destination document libraries

We need to choose source and destination document library for converting documents. Let us assume that we would like to convert all new documents in a library called "Incoming Documents" and store the converted .pdf documents in a library called "Converted Documents" placing the result in the "PDF" subfolder.

If you would like to reproduce this example, you can create these libraries in a SharePoint site you use for testing. Alternatively, you can use existing libraries instead of the suggested example libraries.

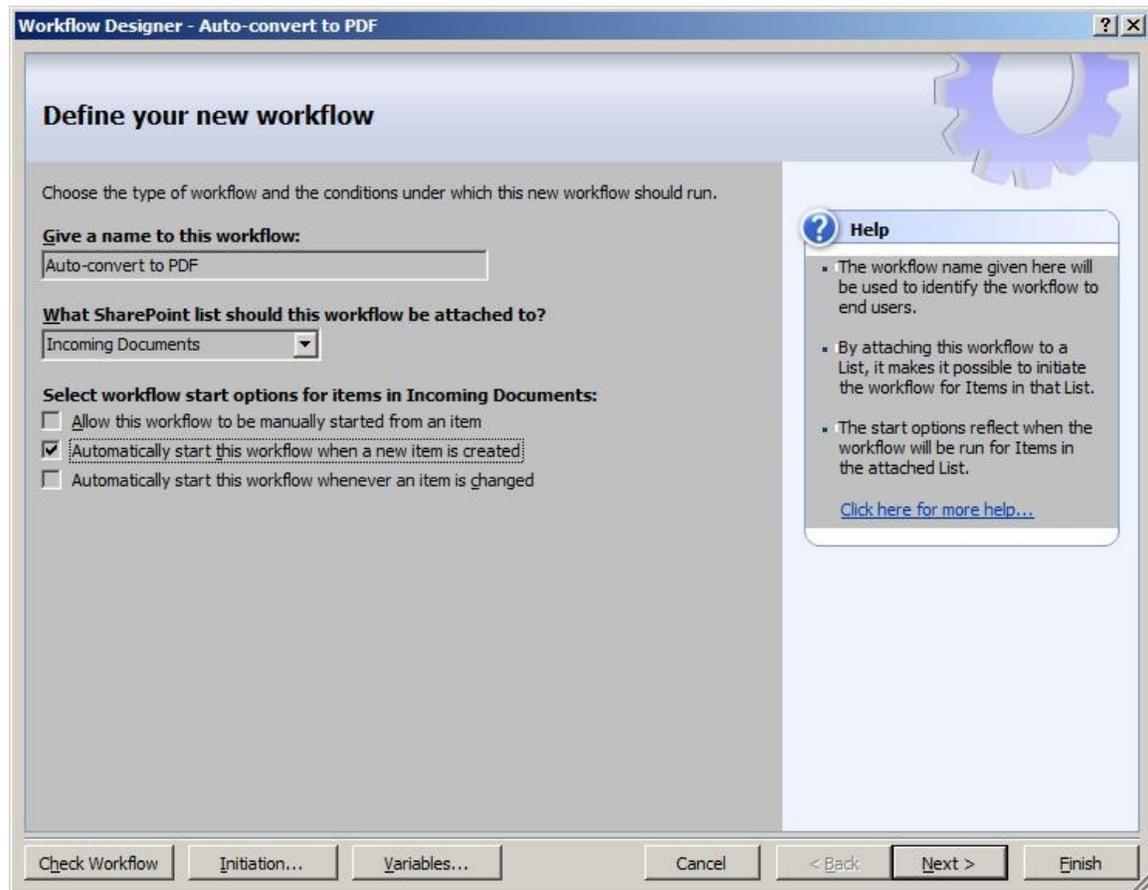
When a workflow is executed, it has the permissions of the user who initiated the workflow. So in order to store the converted documents, users should have the permission to add and update documents in the destination library.

Create a new workflow

To create a new workflow, start SharePoint Designer and connect to the site where the source document library is located. Select "New..." and "Workflow..." from the File menu.

Workflow designer window will appear. Attach the workflow to the "Incoming Documents" library by selecting it in the document library list. Check "Automatically start this workflow when a new item is created" and clear other checkboxes in order to run this workflow for new documents only.

Creating a new workflow.



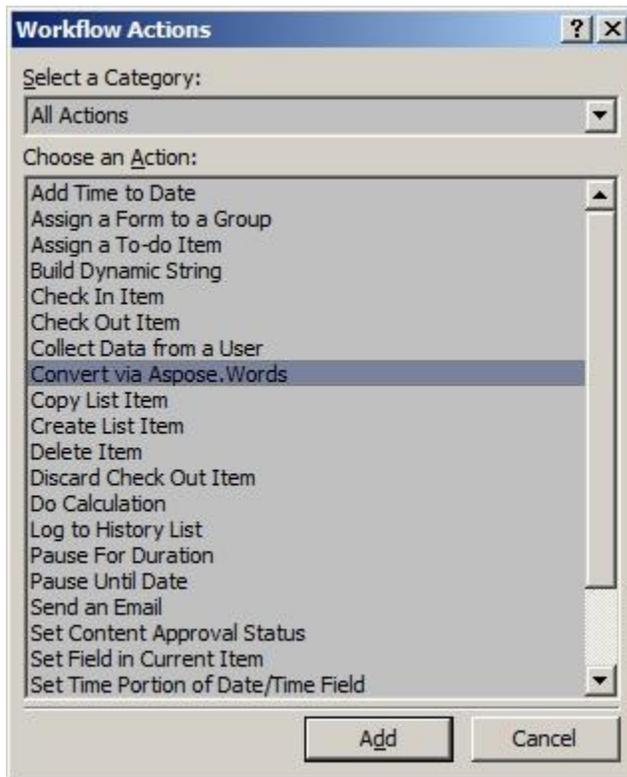
Give your new workflow a descriptive name.

Add "Convert via Aspose.Words" action to your workflow

On clicking "Next" at the previous step, a workflow steps editor will appear. Let us just add an action that will try to convert every new document without any conditions.

Click "Actions" and select "Convert via Aspose.Words" from the list. You may need to select "More Actions..." to produce the complete action list.

Selecting conversion action.

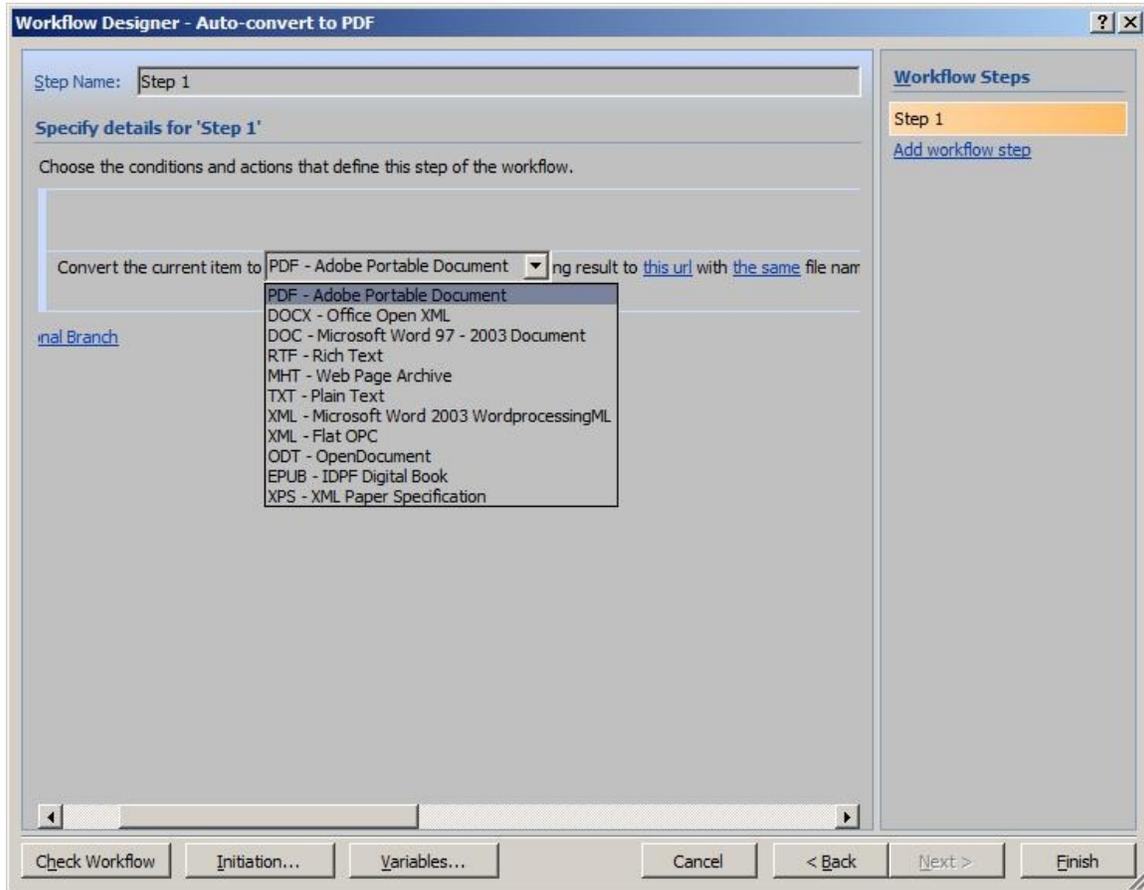


Configure action parameters

The parameters of the workflow action are similar to the conversion settings available when launching conversion via Aspose.Words from a document library:

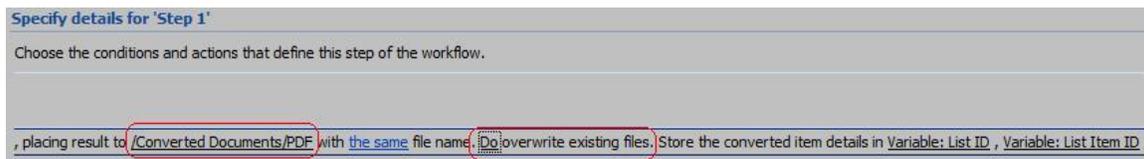
- Destination format. You can use all formats supported by Aspose.Words for SharePoint in a workflow.
- Destination folder URL. This is where the converted document is placed. If this parameter is not set, conversion result is placed in the same folder with the source file.
- Destination file name. Specify this parameter to give the converted file a different name. If this parameter is not set, the converted file will have the same name as a source file. An extension is added according to the specified destination format.
- Whether the existing files in the destination library should be overwritten by the conversion result. By default, conversion does not overwrite existing files.

Selecting destination format.



For our example, let us type in the server-relative URL of the destination document library folder. Leave the destination file name parameter at the default ("the same file name"). Select "Do overwrite existing files" to overwrite existing files in the destination folder with the conversion result.

Setting other workflow action parameters.



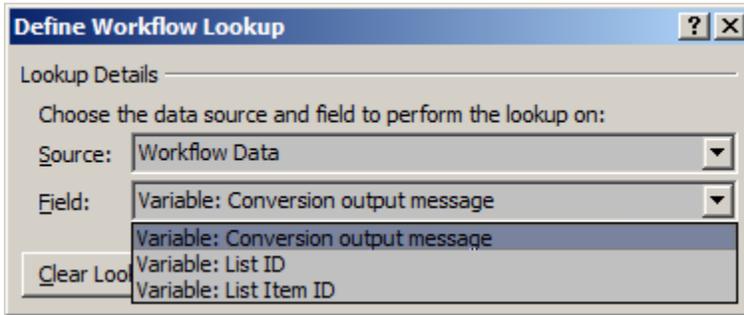
Use action output parameters in other actions

The conversion action sets three workflow variables on execution.

- "List ID". This is the ID of the list where the converted file is saved.
- "List Item ID". This is the id of the document item in the destination list. Use these two parameters in subsequent actions when you need to do something with the converted file.
- "Conversion output message". This is a textual description of conversion outcome.

Let us add another action using one of the conversion output parameters as an argument. Click "Actions" button in the workflow designer to add another action and select "Log to History List". Then click "this message" in the action sentence and "fx" button next to it in order to set the message to the conversion output. Select "Workflow Data" as a source and "Variable: Conversion output data" as a field.

Using action output as a parameter for another action.



Save the new workflow

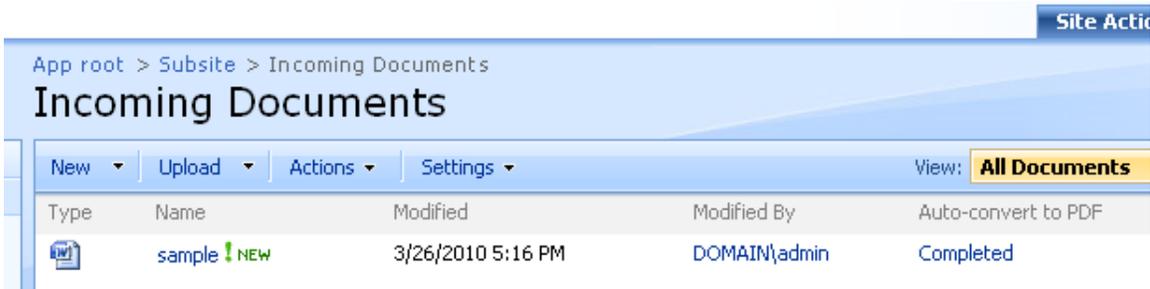
Click "Finish" in the workflow designer window to save the new workflow.

Test the new workflow

Now let us see how it works. Start a browser and go to the "Incoming Documents" library to which our new workflow is attached. Upload a new document. Make sure that document type is supported by Aspose.Words (docx; doc; rtf; mht; xml: Microsoft Word 2003 WordprocessingML or Flat OPC). The workflow should start automatically.

Refresh the browser window. A new column with the workflow status should appear:

Workflow status column displayed in a document library.



You can click "Completed" in the workflow status column to see that conversion outcome message was logged to the workflow history.

A workflow history entry.

App root > Subsite > Incoming Documents > Workflow Status

Workflow Status: Auto-convert to PDF

Workflow Information

Initiator: DOMAIN\admin **Document:** sample
Started: 3/26/2010 5:16 PM **Status:** Completed
Last run: 3/26/2010 5:16 PM

Tasks

The following tasks have been assigned to the participants in this workflow. Click a task to edit it. You can also view these tasks in the list Tasks.

Assigned To	Title	Due Date	Status	Outcome
-------------	-------	----------	--------	---------

There are no items to show in this view of the "Tasks" list. To create a new item, click "New" above.

Workflow History

▣ View workflow reports

The following events have occurred in this workflow.

Date Occurred	Event Type	User ID	Description	Outcome
3/26/2010 5:16 PM	Comment		Conversion status: Success. File sample.docx was converted to /Converted Documents/PDF/sample.pdf.	

You can go to the destination library and find the converted document there.

Now let us assume that a user with insufficient permissions to update the destination library has started the workflow. The workflow again completes successfully, but the failure is logged in the workflow history:

An unsuccessful conversion logged in the workflow history.

Workflow History

▣ View workflow reports

The following events have occurred in this workflow.

Date Occurred	Event Type	User ID	Description	Outcome
3/26/2010 5:26 PM	Comment		Destination folder is not accessible: there is no permission to add and modify items in the destination folder or destination folder is hidden.	

Making a Report via Workflow Activity

Let us walk through the creation of a workflow for building a report with parameters. The steps and screenshot are for SharePoint Designer 2007. The steps for SharePoint 2010 are very similar.

Start SharePoint Designer, open a site and create a new workflow.

Name the workflow and associate it with a document library.

Creating a new workflow.

Workflow Designer - Make a report with parameters

Define your new workflow

Choose the type of workflow and the conditions under which this new workflow should run.

Give a name to this workflow:
Make a report with parameters

What SharePoint list should this workflow be attached to?
Shared Documents

Select workflow start options for items in Shared Documents:

- Allow this workflow to be manually started from an item
- Automatically start this workflow when a new item is created
- Automatically start this workflow whenever an item is changed

Help

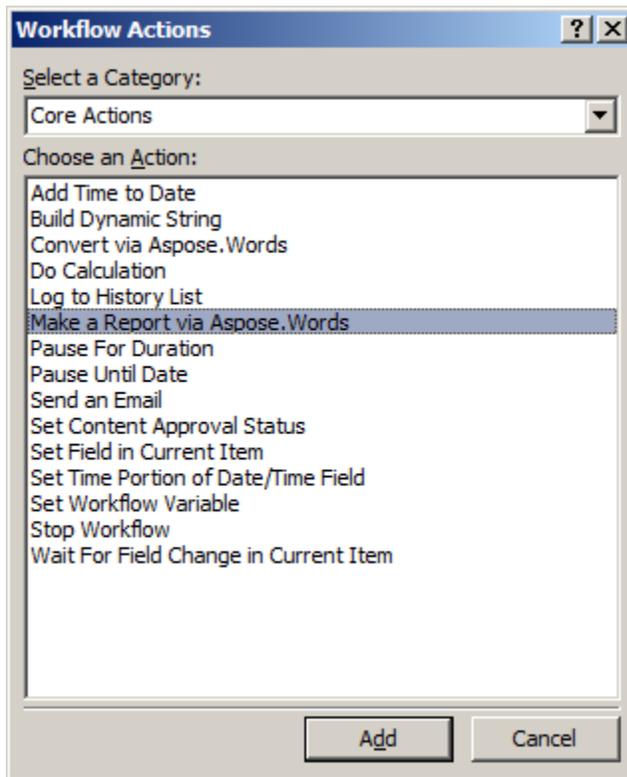
- The workflow name given here will be used to identify the workflow to end users.
- By attaching this workflow to a List, it makes it possible to initiate the workflow for Items in that List.
- The start options reflect when the workflow will be run for Items in the attached List.

[Click here for more help...](#)

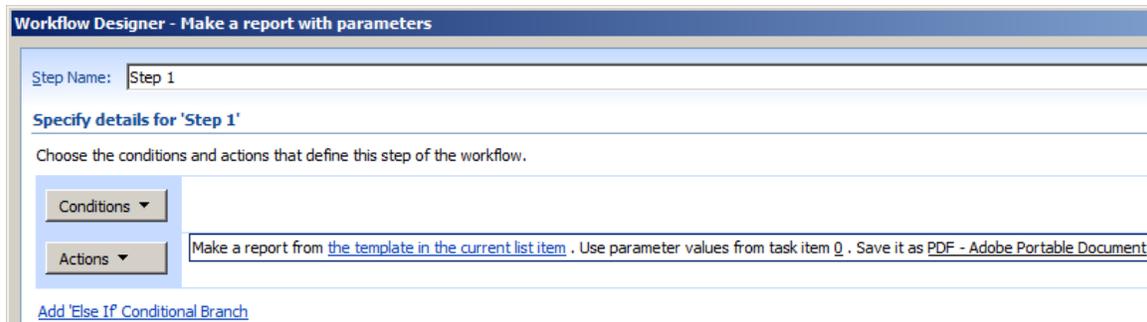
Check Workflow Initiation... Variables... Cancel < Back Next > Finish

Add "Make a Report via Aspose.Words" activity to the workflow.

Adding workflow activity for making a report.



By default, the report template is taken from the current list item.



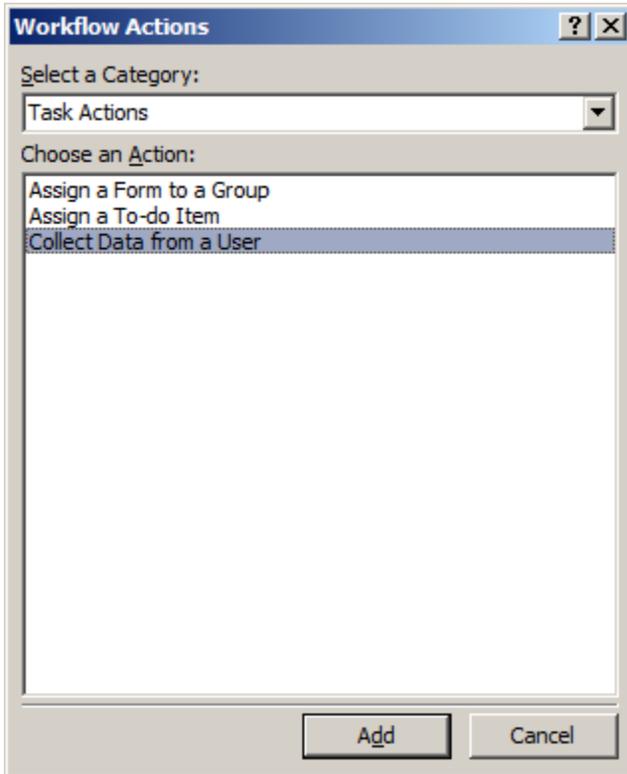
However, in this walkthrough we will set a fixed URL to the report template by editing the first workflow parameter.

The report template URL is specified in the activity parameter.



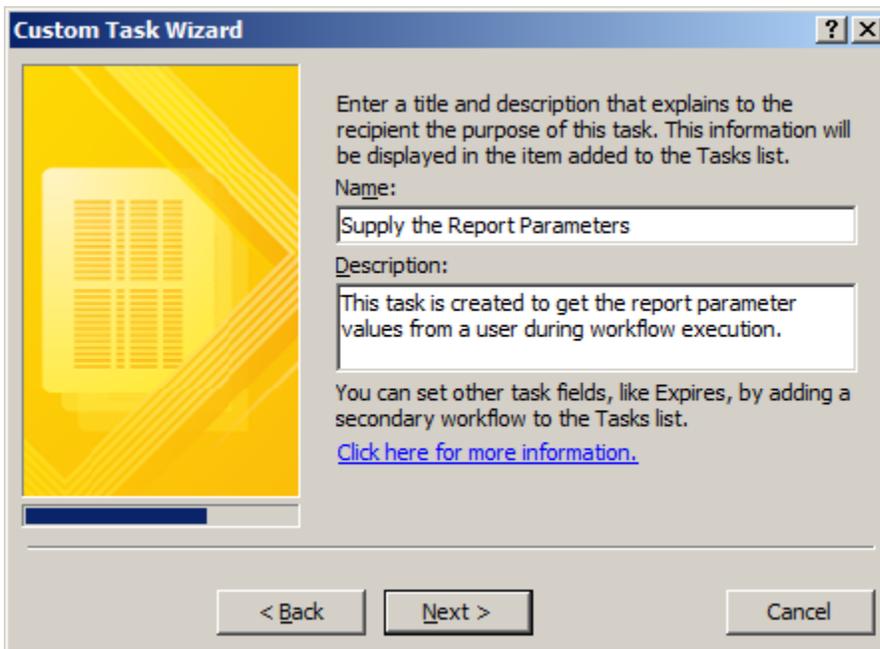
Let us assume that we need to provide the report parameter values during workflow execution. You can do it via the built-in "Collect Data from a User" SharePoint activity.

Adding the activity for collecting parameter values.



Move the added activity up in the workflow sequence so that it executes before building the report. You specify what data to collect in the activity "data" parameter. When the activity executes, a task is created in the workflow task list and is assigned to the specified user.

The task configuration wizard is started on clicking the "data" parameter of the collection activity.



For example, if the report is expecting two parameters, you should configure the data collection activity to get two fields. The field names should match the parameter names in the report definition. Here is a fragment of the report definition with parameter description.

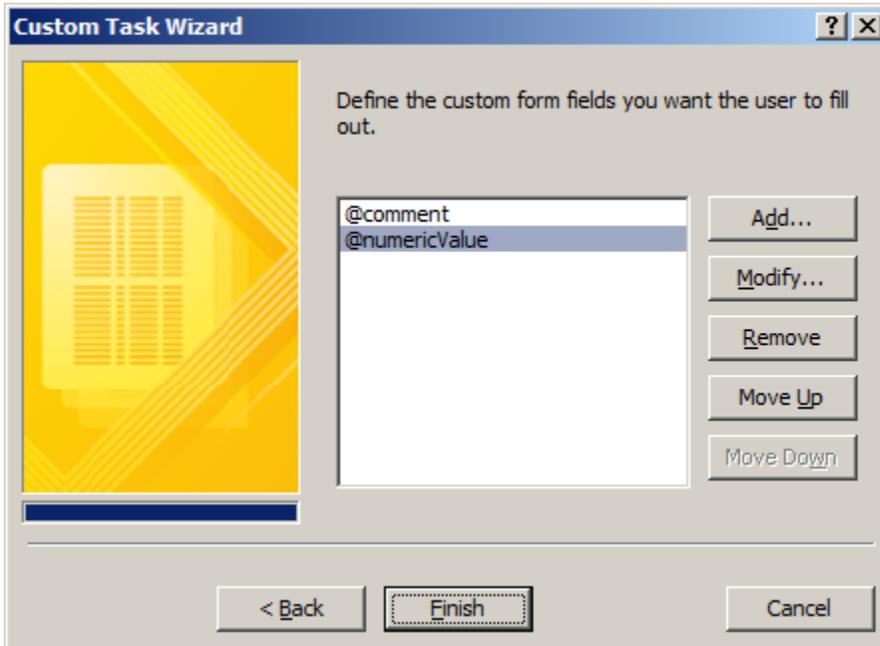
```
<Parameters>  
  <String>  
    <Name>@comment</Name>  
    <Prompt>This is a test report parameter of type string</Prompt>  
  </String>  
  <Int32>  
    <Name>@numericValue</Name>  
    <Prompt>This is a test numeric report parameter</Prompt>  
  </Int32>  
</Parameters>
```

Configuring the field for the @comment parameter in the data collection activity.

The screenshot shows a dialog box titled "Add Field". It has a standard Windows-style title bar with a question mark icon and a close button. The dialog contains the following elements:

- Field name:** A text box containing the text "@comment".
- Description:** A text box containing the text "Enter a comment value which will show in the report subtitle".
- Information type:** A dropdown menu with "Single line of text" selected.
- Navigation buttons:** Three buttons at the bottom: "< Back", "Next >", and "Cancel".

Data collection activity with two fields added for report parameters.



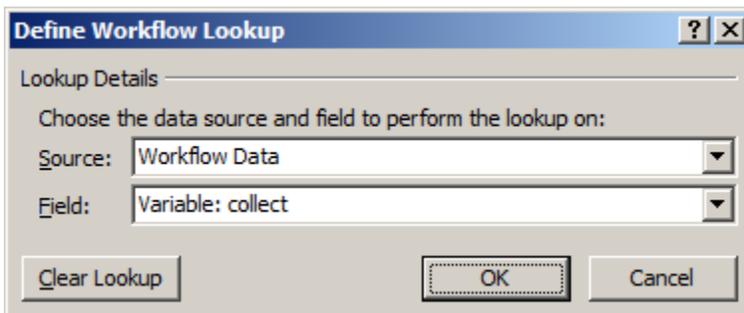
Please note that field names in the data collection activity match parameter names in the report description. You can specify the user who will provide the parameter values in the "user" parameter of the data collection activity. The user will enter the parameter values and complete the task during workflow execution.

A form for entering parameter values generated by the data collection activity.

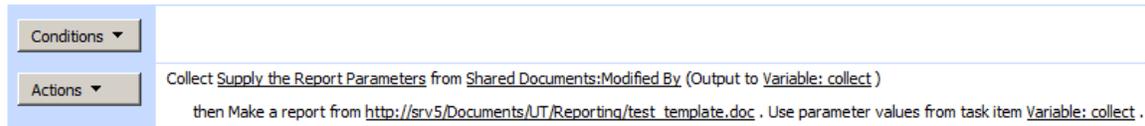
Title:	Supply the Report Parameters
Description:	This task is created to get the report parameter values from a user during workflow execution.
@comment:	<input type="text"/> Enter a comment value which will show in the report subtitle
@numericValue:	<input type="text" value="0"/> Enter a numeric parameter value for the report.
Related list item:	sample

You link the collected data to the report generation activity by setting the parameter task item ID in the report activity to the output parameter of the data collection activity. Data collection activity output parameter is named "collect" by default and can be accessed via workflow variables.

Defining a workflow lookup to the data collection output parameter.



Data collection output linked to the report input in the workflow.



Conditions ▾

Actions ▾

Collect Supply the Report Parameters from Shared Documents:Modified By (Output to Variable: collect)

then Make a report from http://srv5/Documents/UT/Reporting/test_template.doc . Use parameter values from task item Variable: collect .

Most of the remaining report activity parameters are similar to the conversion activity. You can specify the format to save the generated report, destination folder and file name. If the destination folder is not specified, the report is saved to the folder where the report template is. If the file name is not specified, the report will get the same file name as the report template and an extension according to the specified saving format. You can choose whether to overwrite the existing files in case of name clash. However, the report template from which the report is created is never overwritten.

The default input parameter values of the reporting activity.

Save it as [PDF - Adobe Portable Document](#) to [this url](#) with [the same](#) file name. Do not overwrite existing files. Log the activity result to workflow history.

By default, the activity logs its outcome to the workflow history list. You can switch the logging off.

The activity outcome is logged to the workflow history list.

Workflow History			
▣ View workflow reports			
The following events have occurred in this workflow.			
Date Occurred	Event Type	User ID	Description
2/9/2011 10:35 PM	Comment	DOMAINS\admin	The report built from template file test_template.doc is saved to http://srv5/Documents/UT/Reporting/test_template.pdf .

The list ID and item ID of the created list item are saved in the activity output parameters. You can use the in subsequent workflow actions.

Troubleshooting

Aspose.Words for SharePoint uses SharePoint tracing logs to log information about unexpected errors. They may be useful when contacting support. The logs are in the LOGS folder of the SharePoint installation:

- c:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\LOGS\ for SharePoint 2007.
- c:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\LOGS\ for SharePoint 2010.

You can find messages related to Aspose.Words for SharePoint using the line "Aspose.Words for SharePoint" as a keyword. It serves as a diagnostics area under SharePoint 2010 or as a product name under SharePoint 2007. Here is an example of the logged messages.

```
10/21/2010 10:29:48.42 w3wp.exe (0x0A1C)
                        0x0808 Aspose.Words for SharePoint Exception
                        0000 Unexpected Message: Report template is invalid. An error
occured when loading report template. CallStack: at
...
```

There is a known issue with trace logging under SharePoint 2010: after installation, the application pool account (the one used to run w3wp.exe) has insufficient permissions for logging trace messages. You can fix it by manually making the application pool account a member of the "Performance Log Users" group.