Add up to 20+ Custom Export Filters to Silverlight Viewer for Microsoft SQL Reporting Services 2008 in 3 Simple Steps using Aspose Rendering Extensions.

Introduction

The purpose of this article is to demonstrate how a developer can create a Silverlight application with the ability to display SQL Server Reporting Services reports and export them to 20+ different formats, providing additional features and experience to application users.

To help us solve the task, we use Silverlight Viewer for Reporting Services by Perpetuum Software, a software component allowing display SSRS reports in a Silverlight application and SSRS Rendering Extensions by Aspose, a set of rendering extensions allowing export SSRS reports to various formats, including DOC, DOCX, RTF, Excel 2003/2007, PPT, PPTX, FLV, SWF, etc.

Aspose.Total for SSRS includes 5 Rendering Extensions: Aspose.Words, Aspose.Slides, Aspose.Cells, Aspose.PDF, and Aspose.Flash. Depending on the application and user requirements, you can choose whether it is needed to add all or just some selected export options to your Silverlight application.

In this article we will show how to add custom export filters using Aspose.Words and Aspose.Cells for SSRS to Silverlight Viewer for Reporting Services 2008 in 3 simple steps: create a Silverlight application, add extra export options to an application with just a few lines of code to Web.Config file, and add images for custom export filters to be displayed on the toolbar of the application.

For your convenience, we've developed a working sample application, and the instructions below will help you understand how this application has been built.

Attachment: Use-of-custom-export-filters-in-Silverlight-app.zip

Step 1. Prepare the Development Environment

Before creating an application, make sure that your development environment is configured adequately so your development process will go smooth and easy. To create a sample application following our instructions given below, the following software must be installed on your machine:

- .NET Framework 3.5 SP1/4.0;
- Silverlight v. 4;
- Visual Studio 2010;
- Microsoft SQL Server 2008 Reporting Services (Enterprise or Standard editions);
- Microsoft SQL Reporting Services 2008 Sample Reports;
- Aspose.Total for SSRS (the whole suite or any of 5 rendering extensions of the Aspose.Total for SSRS).
  To download and install Aspose Rendering Extensions, please follow this step-by-step guide:
  http://www.aspose.com/categories/ssrs-rendering-extensions/aspose.total-for-reporting-services/how-to-install-aspose.total-for-ssrs.aspx

- Silverlight Viewer for Reporting Services 2008 v. 2.6.0.0 or higher
  To download the latest version of Silverlight Viewer for Reporting Services, please go here:
  http://www.perpetuumsoft.com/Downloads.aspx?pid=116

As soon as everything is set up, we can proceed to the next step:

Step 2. Create sample Silverlight application.

First, we create a Silverlight application which will allow us to display SSRS reports. You can easily do it by following the Getting Started instructions given here:
http://helpcenter.perpetuumsoft.com/KB/a92/getting-started-silverlight-viewer-reporting-services-2008.aspx

Step 3. Adding custom export filters to Web.Config file.

Once a Silverlight sample application is ready, we need to add couple lines of code to the Web.Config file of your Web application to add the rendering extensions:

```
<PerpetuumSoftServices>
                  <!--
            Set LogMode value="On" to log errors.
            If hosting provider does not allow to write into files set LogMode value to "Off".
          -->
         <LogMode value="On"/>
                  <!--
            The <PerpetuumSoftServices> section defines
            configuration to access Microsoft SQL Reporting
            Services 2008 web service.
          -->
         <Service Type="SampleApplication.Server.ReportService, SampleApplication.Server">
                            <!--
            The <MsReportingServer> section defines URL to web service
            and credentials to access Microsoft SQL Reporting Services 2008.
          -->
         <MsReportingServer Url="http://localhost/reportserver/ReportExecution2005.asmx">
                  <Credentials Domain="" UserName="" Password=""/>
         </MsReportingServer>
         <CustomExports>
           <add name="AWDOCX" displayName="Aspose Word" imgPath="Images\AsposeWord.png"/>
           <add name="ACXLSX" displayName="Aspose Excel" imgPath="Images\AsposeExcel.png"/>
         </CustomExports>
                  </Service>
         </PerpetuumSoftServices>
```

SSRS extensions are usually registered here:

C:\Program Files\Microsoft SQL Server\MSRS10_50\Reporting Services\ReportServer\rsreportserver.config

Here, we should find an extension which we want to add:

```
…

    <Extension Name="AWDOCX" Type="Aspose.Words.ReportingServices.DocxRenderer,Aspose.Words.ReportingServices" />

…

    <Extension Name="ACXLSX" Type="Aspose.Cells.ReportingServices.Excel2007XlsxRenderer,Aspose.Cells.ReportingServices" />
```

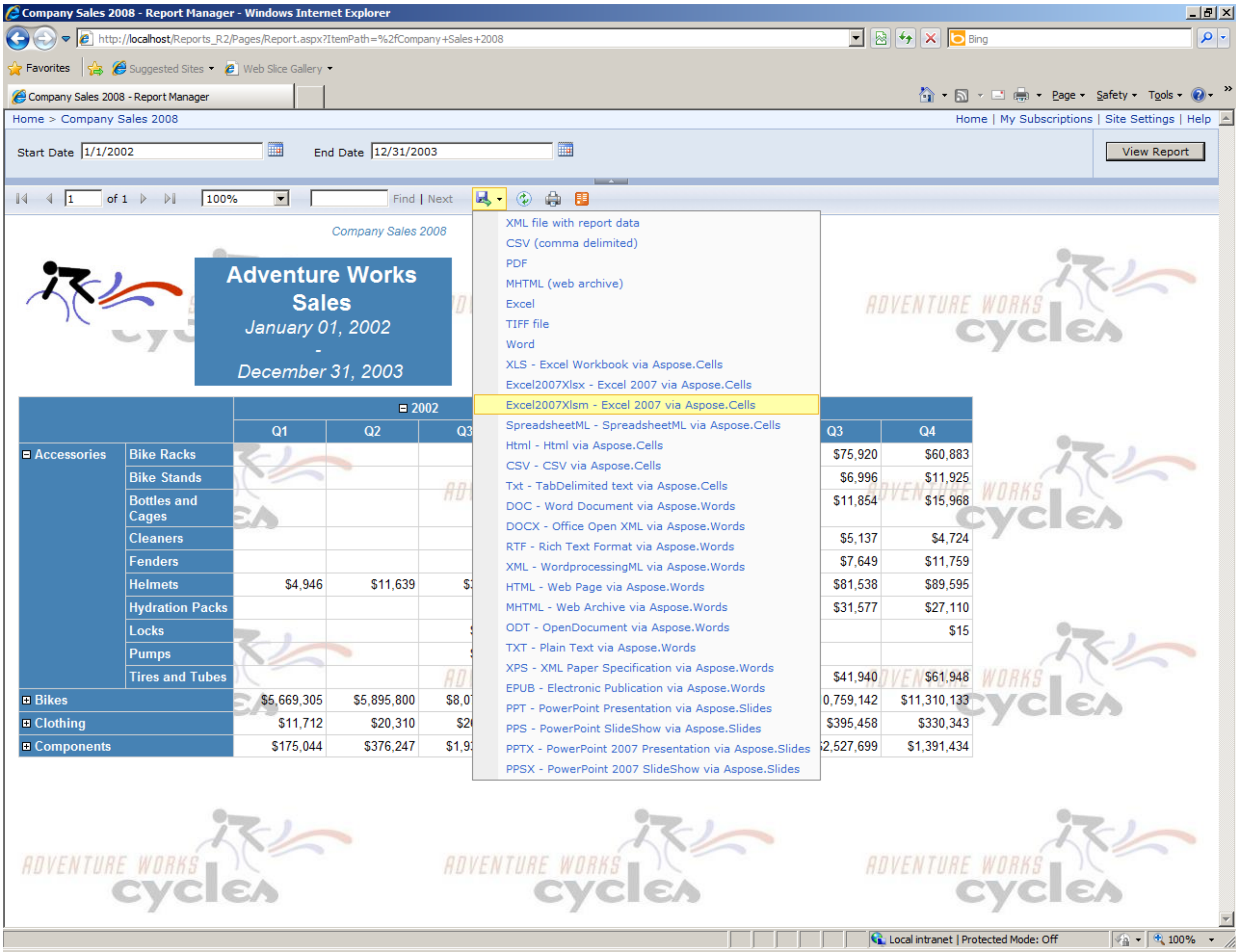
The ‘’**CustomExports**’’ section name is the filters container which includes the following attribute elements:

name – a name of an extension as it is registered in the SQL Reporting Services;

displayName – displayed name of the filter which is shown in Silverlight Viewer for Reporting Services;

imgPath – a server path to an image of an export filter which is displayed.

Before adding custom export filters, you can make sure that they work in Reporting Services correctly:


Company Sales 2008 - Report Manager - Windows Internet Explorer
Favorites
Suggested Sites
Web Slice Gallery
Company Sales 2008 - Report Manager
Bing
Page
Safety
Tools
Home > Company Sales 2008
Home | My Subscriptions | Site Settings | Help
View Report
of 1
Find | Next
XML file with report data
CSV (comma delimited)
PDF
MHTML (web archive)
Excel
TIFF file
Word
XLS - Excel Workbook via Aspose.Cells
Excel2007Xlsx - Excel 2007 via Aspose.Cells
Excel2007Xlsm - Excel 2007 via Aspose.Cells
SpreadsheetML - SpreadsheetML via Aspose.Cells
Html - Html via Aspose.Cells
CSV - CSV via Aspose.Cells
Txt - TabDelimited text via Aspose.Cells
DOC - Word Document via Aspose.Words
DOCX - Office Open XML via Aspose.Words
RTF - Rich Text Format via Aspose.Words
XML - WordprocessingML via Aspose.Words
HTML - Web Page via Aspose.Words
MHTML - Web Archive via Aspose.Words
ODT - OpenDocument via Aspose.Words
TXT - Plain Text via Aspose.Words
XPS - XML Paper Specification via Aspose.Words
EPUB - Electronic Publication via Aspose.Words
PPT - PowerPoint Presentation via Aspose.Slides
PPS - PowerPoint SlideShow via Aspose.Slides
PPTX - PowerPoint 2007 Presentation via Aspose.Slides
PPSX - PowerPoint 2007 SlideShow via Aspose.Slides
ADVENTURE WORKS cycles
Local intranet | Protected Mode: Off
100%

http://localhost/Reports_R2/Pages/Report.aspx?ItemPath=%2fCompany+Sales+2008

Start Date 1/1/2002 End Date 12/31/2003

1 of 1 100%

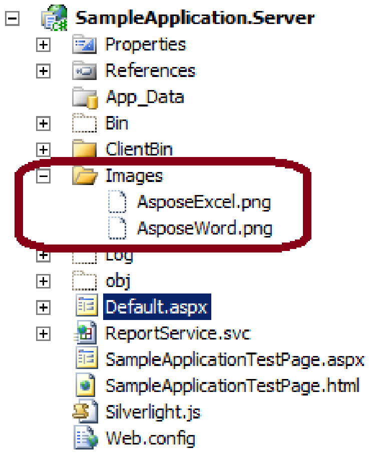
Company Sales 2008

Adventure Works Sales
January 01, 2002
-
December 31, 2003

		⊟ 2002				
		Q1	Q2	Q3	Q3	Q4
⊟ Accessories	Bike Racks				$75,920	$60,883
	Bike Stands				$6,996	$11,925
	Bottles and Cages				$11,854	$15,968
	Cleaners				$5,137	$4,724
	Fenders				$7,649	$11,759
	Helmets	$4,946	$11,639	$1	$81,538	$89,595
	Hydration Packs				$31,577	$27,110
	Locks			$		$15
	Pumps			$		
	Tires and Tubes				$41,940	$61,948
⊞ Bikes		$5,669,305	$5,895,800	$8,0	0,759,142	$11,310,133
⊞ Clothing		$11,712	$20,310	$2	$395,458	$330,343
⊞ Components		$175,044	$376,247	$1,9	2,527,699	$1,391,434

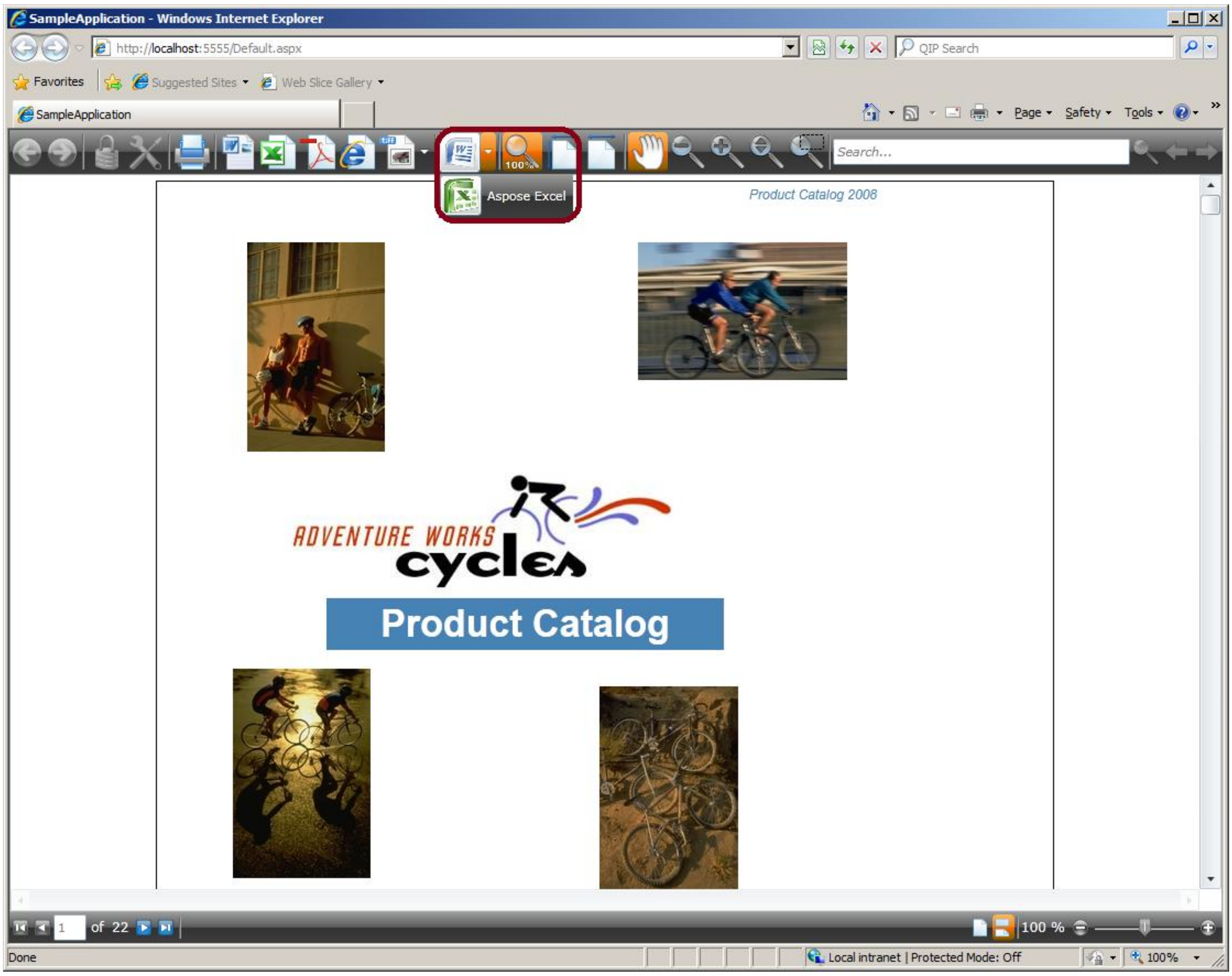
Step 4. Add images to display custom export filters on the toolbar of a Silverlight app.

If you would like to use images for displaying the additional export filters on the toolbar of your Silverlight application, you can easily make this happen by adding the corresponding images to server directory specified in your Web.Config file:



```
⊟ SampleApplication.Server
    ⊞ Properties
    ⊞ References
      App_Data
    ⊞ Bin
    ⊞ ClientBin
    ⊟ Images
          AsposeExcel.png
          AsposeWord.png
    ⊞ Log
    ⊞ obj
    ⊞ Default.aspx
    ⊞ ReportService.svc
      SampleApplicationTestPage.aspx
      SampleApplicationTestPage.html
      Silverlight.js
      Web.config
```

As a result, new export filers are successfully added to your application and your customers can easily export SSRS reports directly from the Silverlight application into additional formats by pressing the corresponding export option from the toolbar.



Conclusion

We have examined basic steps and got a simple application that solves our task. Using the same approach, you can add any other Rendering Extensions from Aspose to your Silverlight application. As you can see, it is easy and fast, does not require writing lots of code.