



# Aspose.Total for .NET



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**Aspose.Total for .NET Case Study**

**Bryan Buus, [www.adeptivesw.com](http://www.adeptivesw.com), January 2009**

## Product Overview

Adeptive's leading product, ResWare™ V3.0, is a real estate process flow software package that can be customized to manage any workflow process in the industry. We were previously using Microsoft Word and Excel automation for generating templates and Ghostscript to generate PDFs. We began having serious performance problems recently, where Word would hang, causing all sorts of problems.

## Requirements Scenario

We were using Microsoft Word and Excel to dynamically generate documents by manually populating Word merge fields and Excel cells with data pulled from our database on the fly. This was implemented using COM interop objects with C#.

This was ugly to say the least, as the COM bridges cause memory issues (every object needs to be explicitly released). This would often cause Word and Excel instances to be left hanging around on the server, which was also not good. In addition, we were using Ghostscript to convert Word and Excel documents to PDF on the fly. The approach we were using did not exactly lend itself to a high-volume, multi-threaded, scalable approach.

We wanted to remove the server side dependency on Word, Excel, and Ghostscript. In various technical bulletins, Microsoft has made it very clear that Word and Excel are not designed to be used in a server environment, and should not be used for that sort of thing.

We discovered this was the case when we tried to use Office to do just that, in a high-load environment. We managed to work around most of the issues with clever code, but Word and Excel would still cause problems, especially as the load went up. Word would crash randomly or, even worse, generate a popup that would freeze the entire template generation. We eventually came to the conclusion that our approach was not scalable to the levels we needed. At this point, we did our homework and turned to the Aspose product suite.

## Solution Implementation

We recoded all of our PDF generation and Word and Excel template population to use the Aspose components.

Recoding did not take long at all. The API is very clean and intuitive, and the documentation is excellent. Redistribution was simple, as each component has a single DLL with no dependencies. It's pretty much just plug-and-play! Re-writing the code, which had taken several man-months to develop, took just two man-weeks to entirely swap out. We only wish that we had known about Aspose when we started developing the product five years ago!

When we were using Word and Excel, we had to start our server process on the console, since Word and Excel would occasionally throw up pop-up dialogs. If the server process was running as a service, the pop-ups wouldn't be visible, and the server would come to a screeching halt. In addition, calls to Ghostscript had to be made which also generated DOS windows. Since Aspose is all DLLs, we finally don't have pop-ups, windows, or other craziness to worry about and we're able to change the server into being a service, at last!

Lastly, the support provided by Aspose was exceptional, even **before** we had bought the product and were simply evaluating its use. Questions posted in their support forum would be responded to within hours, usually with a solution provided. I can't stress enough how important this is. Other 3<sup>rd</sup> party providers' "support" is laughable compared to what we received. No waiting for months for a solution and new build!

## Benefits

Once implemented, we immediately noticed a 4x speed increase in the template population and PDF generation. Our template generation is very reliable now, and we're confident that we can handle the load that our larger clients demand.

We don't even need Microsoft Office installed on the server anymore! Our clients are much happier and we receive fewer support calls, which obviously saves time and money.

I can honestly say that I haven't had a better outcome with any 3<sup>rd</sup> party provider (and we've had to use our fair share of them)!

## Screen Shots

### Template Administration

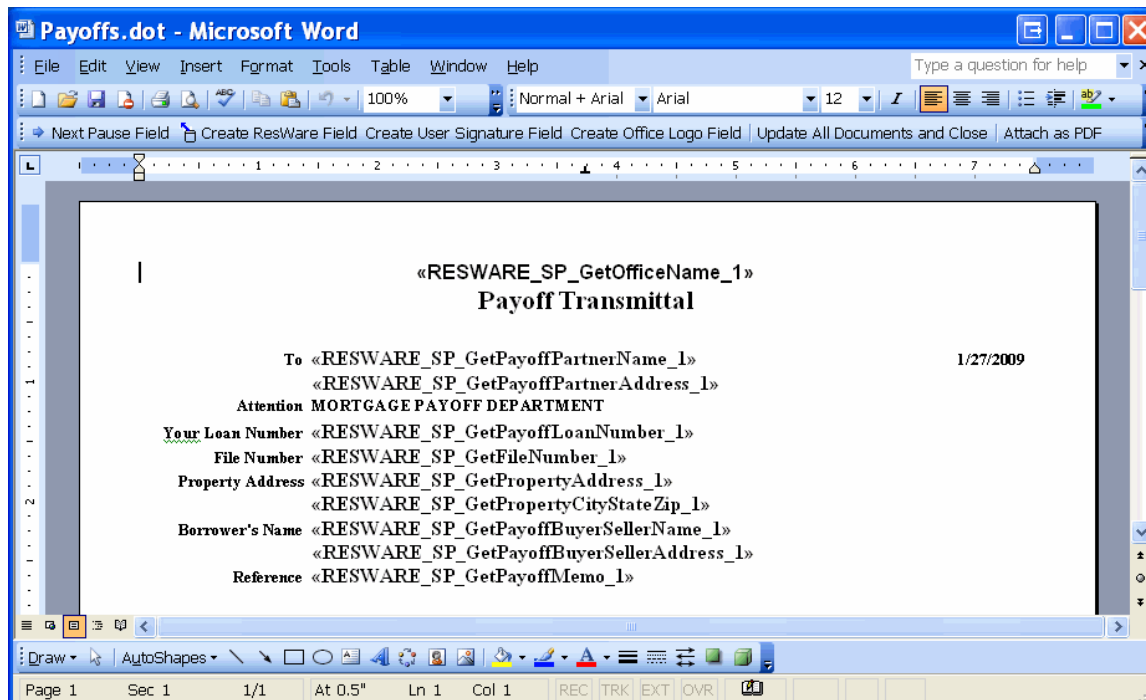
**Administer Templates**

☐ Show Disabled Templates      Show Document Type: All

Templates

Enabled	Internal	Multiple	Snapshot	Snapshot Internal	Document Type	Name	Filename
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other	12 Month Request	12MonthRequest.dot
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other	Payoff	Payoffs.dot
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other	Payoff Request	PayoffsRequest.dot
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Search Request	Search Request	SearchOrderSheet.dot
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Policy Package	Texas T-42	Texas-T42.dot
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Policy Package	Texas T-42.1	Texas-T42.1.dot
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Title Order	Title Order Request	TitleOrderRequest.dot
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other	Verification of Mortgage Request	VDMRequest.dot
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other	Wire Authorization	WireAuthorization.dot

## Template Fields in Word



## Merge Multiple Document Types into a Single PDF

