

OpenDoPE Word Add-In

Introduction

The OpenDoPE Word Add-In is an Add-In for Microsoft Word 2007 which is designed to help you to:

- **bind** content controls to CustomXML parts
In this respect it is similar to the Content Control Toolkit, except that it runs from within Word
- make the contents of a content control into **conditional text**
- make the contents of a content control **repeat** a certain number of times

It implements the architecture described in [Convention for repeating/conditional content controls](#)

Once you have used the Add-In to instrument your docx, it is ready to be pre-processed to create instance documents.

You'll need software to do this. Pre-processing implementations

Enviroment	Status
Java	implemented in docx4j svn
Word macros	implementation currently underway
.NET	not done (could be ported from the Java quite easily)

Add-In Status

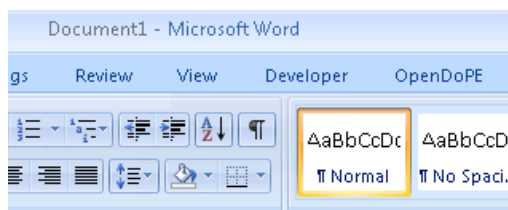
The OpenDoPE Word Add-In is currently available as a pre-alpha quality download.

It can be used to create documents which the Java pre-processor can process in non-interactive mode. It is certainly helpful for getting a feel for how the convention works (instrument a docx using the Add-In, save it, and then unzip the resulting docx and look at it).

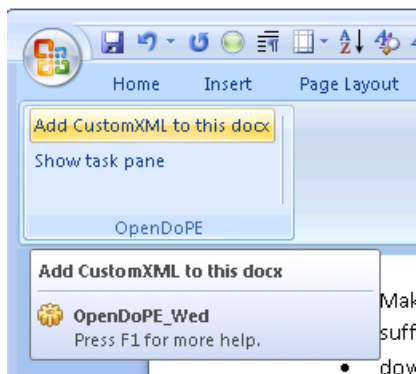
Download and Setup

- Make sure you have the full .NET 4 framework installed (the .NET 4 CP client profile is not sufficient), then
- download the OpenDoPE Word Add-In from <http://dev.plutext.org/opendope/setup.exe>

After a successful install, upon opening Word. you will see a new OpenDoPE menu:

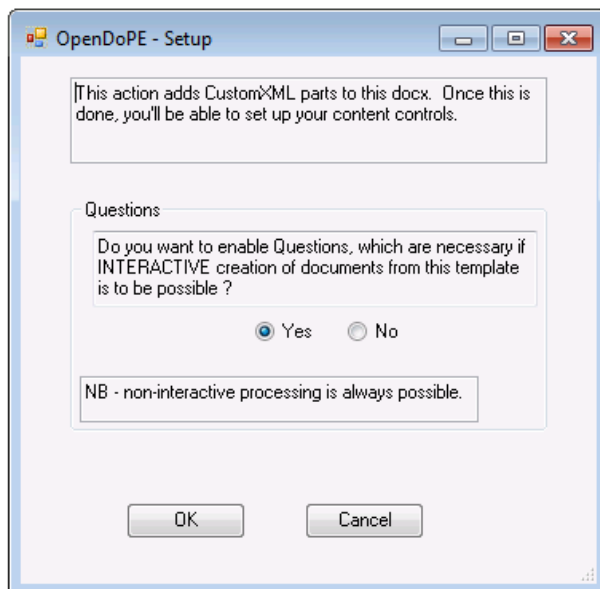


Click on it, and select "add CustomXML to this docx"



You can do that with a new empty docx, or with an existing docx (with or without content controls - but not content controls which are already bound, yet).

You will see:



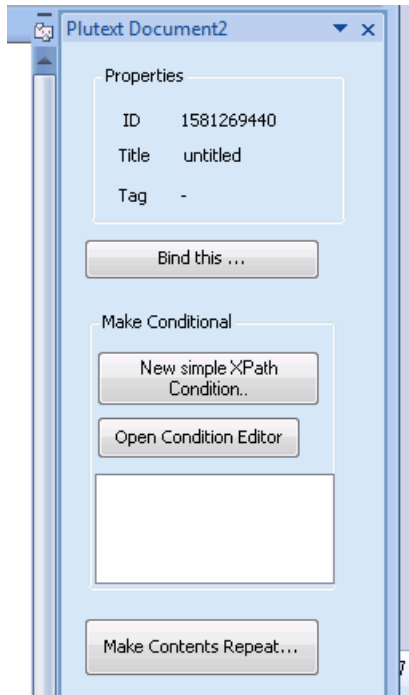
For simplicity, answer "no".

This will add the necessary custom xml parts, and opens the OpenDoPE task pane.

Nothing more will happen until you click into a content control in your document (either an existing one, or one you have just created).

To create a content control, use the Word Developer ribbon. If it isn't visible, you can enable it in Word Options.

When you click inside a content control, your task pane will show something like:



The three options are

1. a traditional bind (exactly what you'd create using the Content Control Toolkit)
 2. making the content control conditional
- three ways are provided to make the conditional:

- a. adding a simple XPath
- b. creating a more complex condition using the condition editor
- c. selecting an existing condition from the list (empty here; not yet implemented)

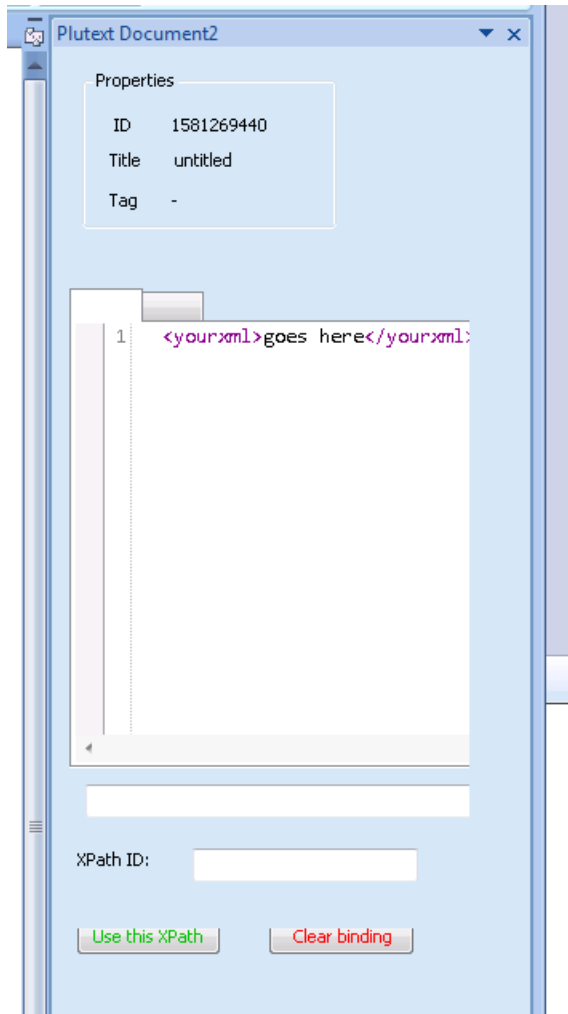
3. making the content control repeat

We'll look quickly at each

Traditional Bind

When you press the "Bind this.." button, Word may pause for a few seconds as our editors load. This will only happen once (per docx open).

You'll see:



The XML you can see is your custom xml part. The XML should match your business requirements. You might have an existing XML document you want to paste here, or you can create it as you go along.

Notice the tab. You can work in a tree view if you prefer.

If you click on an opening tag, an XPath will appear in the box below. Once you see the XPath you want (you can edit it as necessary), make up a name for it (and put that in the ID box), then click "Use this XPath".

That's all you need to do to create a traditional bind. You should see Word put the value of the XPath into your content control.

Adding a Condition - Method 1

There are currently 2 ways to add a condition.

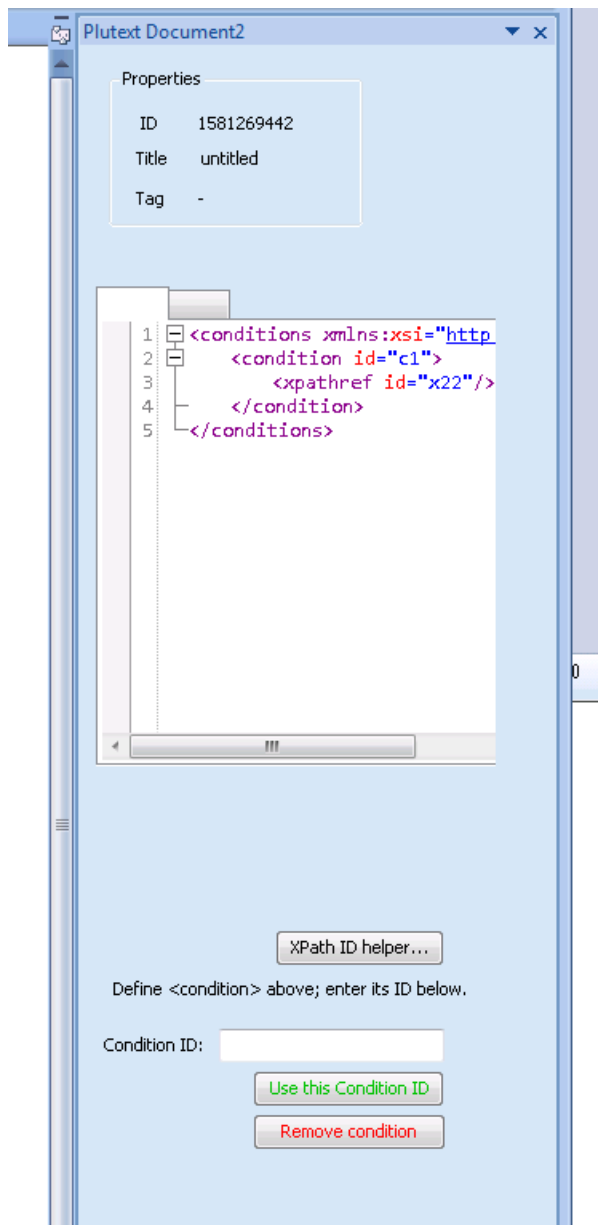
The first is using the simple condition editor:



Using this is very similar to doing a traditional bind. The only difference is that you also need to make up an ID for your new condition (then hit the "Create Condition" button).

Adding a Condition - Method 2

More complex conditions can be created using the condition editor:

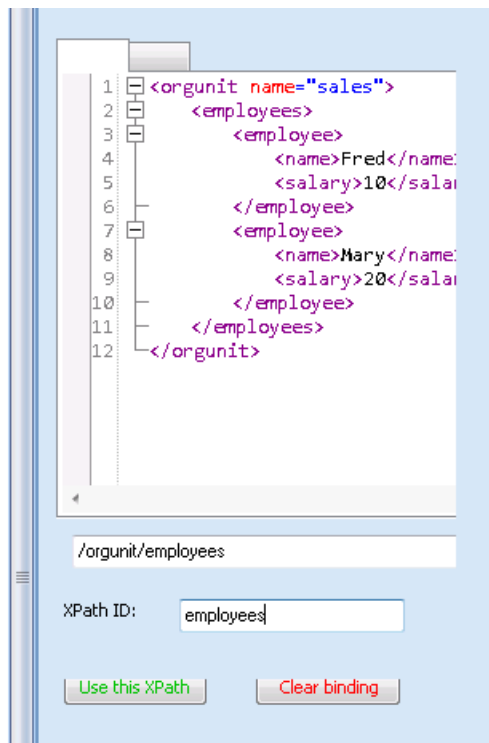


This is only really necessary if you want to make conditions based on boolean expressions. It is not discussed further here.

Repeats

To make a content control repeat, press the "Make Contents Repeat.." button.

In this example:



the content control will be cloned for each employee.

Inside this repeating content control, you then put the actual content you want to repeat. Typically this will include more content controls - in this example, one bound to `/orgunit/employees/employee/name` and/or salary.

It is the job of the pre-processor to clone the repeat control, and then change the xpaths within it to `employee[1]/name` in the first, `employee[2]/name` in the second etc.

Finishing Up

To see the results of your work, save your docx in the usual Word way, and then inspect its XML. There are lots of ways to look at the XML:

- from Word, save as ".xml", or
- unzip the docx, or
- drag the docx onto Visual Studio 2010

Have a look at each of the custom XML parts; also look at your content controls (`<sdt>`) in `document.xml`

You can also process the resulting docx using one of the tools identified in the Introduction above.

Questions/Comments

The best place for questions/discussion is currently the [docx4j forum](#).

Alternatively, you can email jason@plutext.org