

Adding plug-ins to WordML2FO project

There was added support for barcode rendering through smart-code XSLT processing (you can learn more about smart-tags [here](http://msdn.microsoft.com/library/default.asp?url=/msdnmag/issues/03/11/xmlfiles/toc.asp) [http://msdn.microsoft.com/library/default.asp?url=/msdnmag/issues/03/11/xmlfiles/toc.asp]). For now only smart-tags for barcodes are supported. But list of supported xml-tags can be populated by developer himself. Third party developers can use proposed approach to add processing of their own smart-tags with self-developed XML schemes.

So if you want to add processing of your own smart-tags you should do the following:

1. First of develop your own XSD (XML scheme definition). You will need it to have possibility to insert your smart-tags into document. E.g.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xmlns="ProductTag" targetNamespace="ProductTag"
            elementFormDefault="qualified">
  <xs:element name="product">
    <xs:complexType mixed="true">
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element ref="value"/>
        <xs:element ref="serial"/>
      </xs:choice>
      <xs:attributeGroup ref="attlist.product"/>
    </xs:complexType>
  </xs:element>
  <xs:attributeGroup name="attlist.product">
    <xs:attribute name="item-id" use="required"/>
  </xs:attributeGroup>
  <xs:element name="value" type="xs:string"/>
  <xs:element name="serial" type="xs:string"/>
</xs:schema>
```

2. Ensure that smart-tags you want to process (and render) are not on the same level with w:p (or w:tc) or even worse – contain this WordML tags. That's the limitation of plug-in approach – your templates for smart-tags could not properly process WordML elements. E.g.

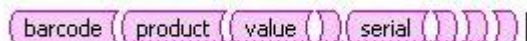


Figure 1. Smart-tag correctly placed into document



Figure 2. Smart-tag placed into document in such way that it will not be rendered

3. Create templates for processing your smart-tags. Place them into one style sheet (or make wrapper style sheet for all style sheets you have used). Also you will need to reference your XML scheme for smart-tags to some namespace. E.g.

```
<xsl:stylesheet
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:pdv="ProductTag"
  version="1.0">
  ...
  <xsl:template match="pdv:product" mode="barcode">
    <xsl:value-of select="pdv:value"/>
    <xsl:text> </xsl:text>
    <xsl:value-of select="pdv:serial"/>
  </xsl:template>
```

If you for any reason do not want to render in PDF file your smart-tags so make stub templates for them. Otherwise if you do not process them into style sheet, but expect the contents to be rendered, you should ensure in this by adding template (some kind of following).

```
<xsl:template match="pdv:*">
  <xsl:apply-templates select="*" />
</xsl:template>
```

Include your style sheet into SmartTags.xsl.

E.g.

```
<xsl:include href="Plugins/Products/SmartProducts.xsl"/>
```

See also documents "Rendering Barcodes through Smart-Tags in WordML File" and "Dynamic rendering of barcodes".