

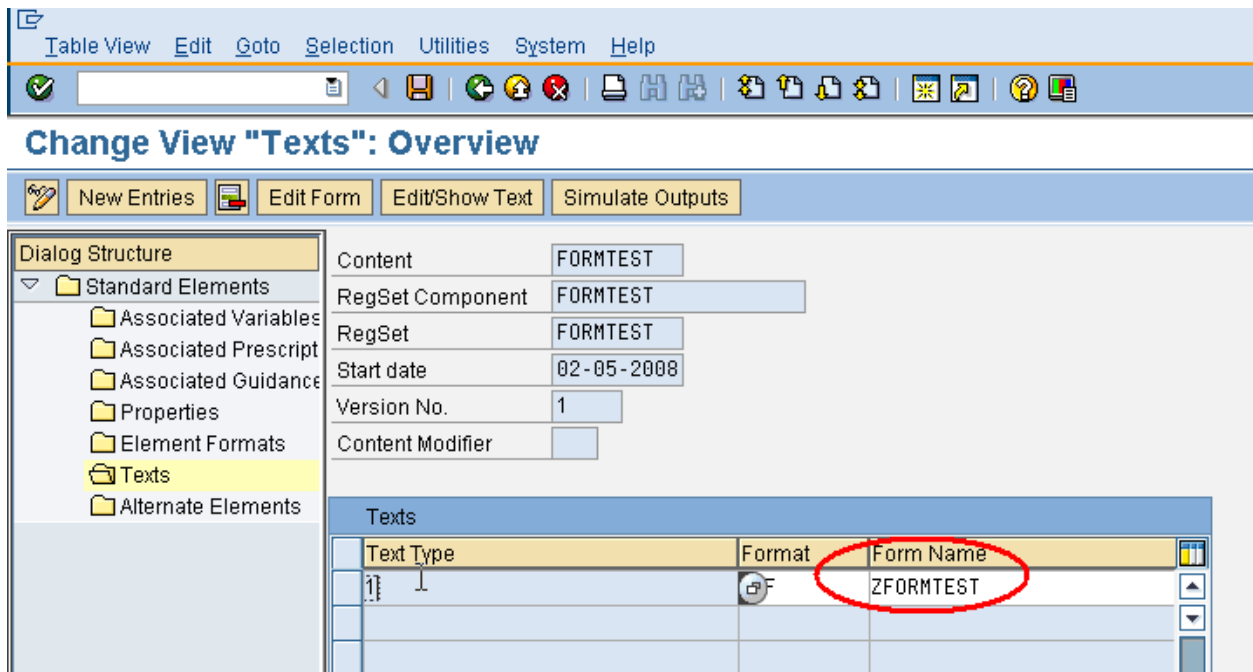
Creating an Interactive Form in Document Builder 3.0

Steve Keyes
May 2008

Introduction

This document describes how to create a simple (i.e. no tables) interactive form in Document Builder 3.0. For purposes of illustration, the following has been setup in LX2/220:

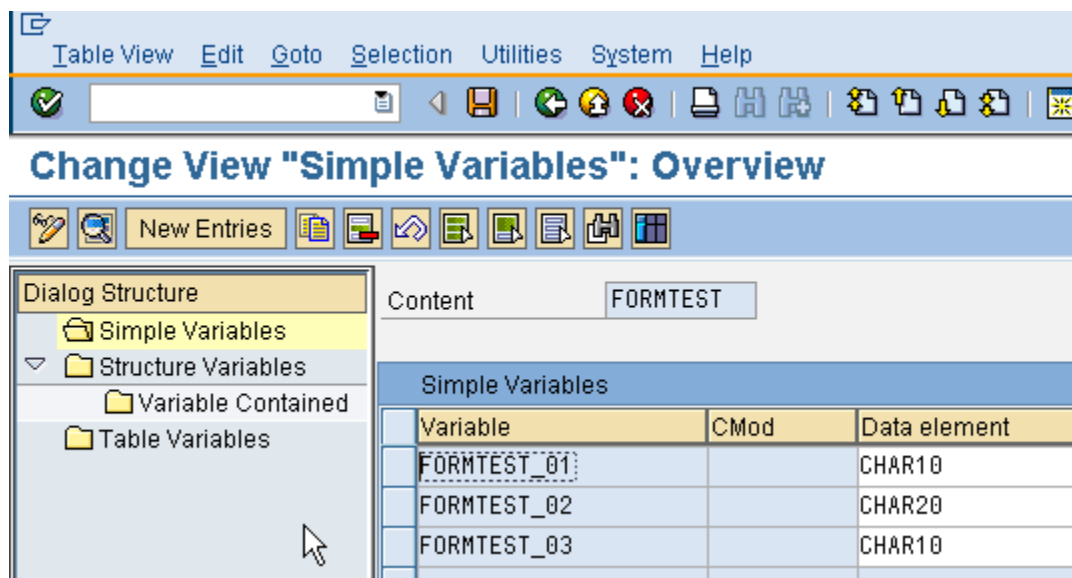
- **FORMTEST content** – to contain objects for creating a simple form
- **FORMTEST document selection** based on a **FORMTEST format**
- **FORMTEST element** of type 6 (form). This form is associated with the **ZFORMTEST form** that was created in SFP:



NOTE: you can create the element and specify the form (ZFORMTEST) before actually creating the form itself.

In addition to the FORMTEST element, there are also three (3) simple variables in the FORMTEST content that are used on the form:

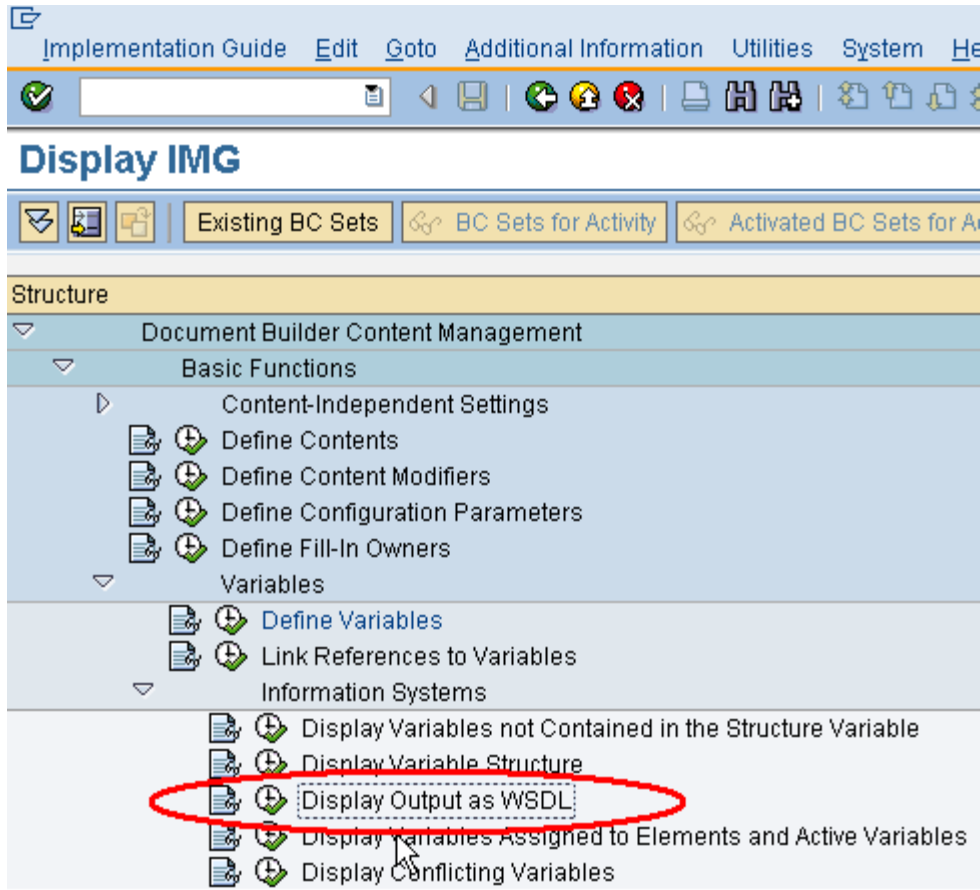
- FORMTEST_01
- FORMTEST_02
- FORMTEST_03



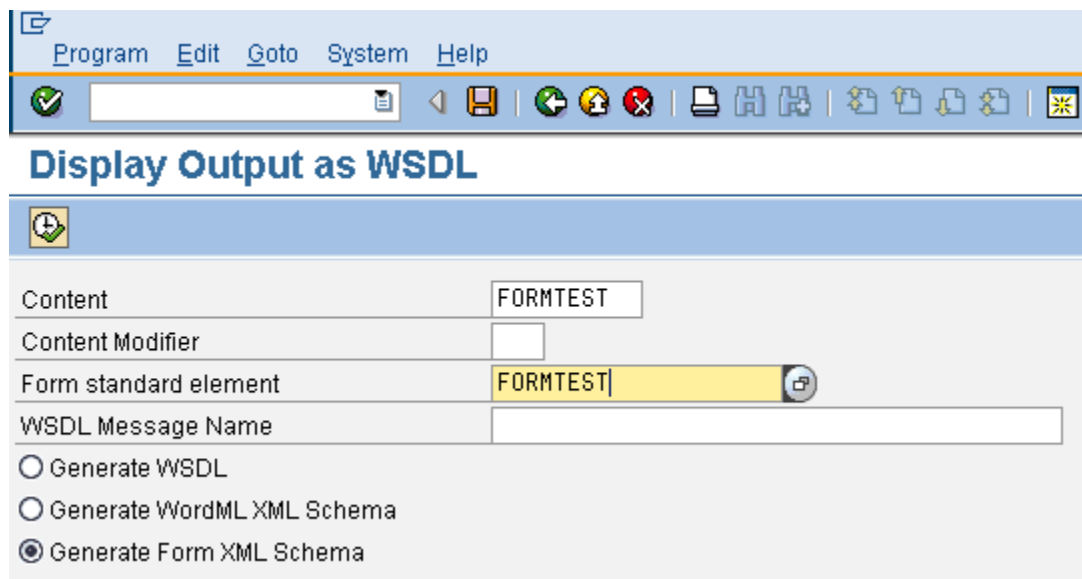
With this setup in place, the rest of the document describes how to create and use the form. These forms are included in the FORMTEST content root structure and are associated with the FORMTEST element.

Creating the Form Schema

To create the form, run the “Display Output as WSDL” IMG step:



Supply the content name (FORMTEST) and the name of the form element (FORMTEST). Click the “General Form XML Schema” radio button and run the step:



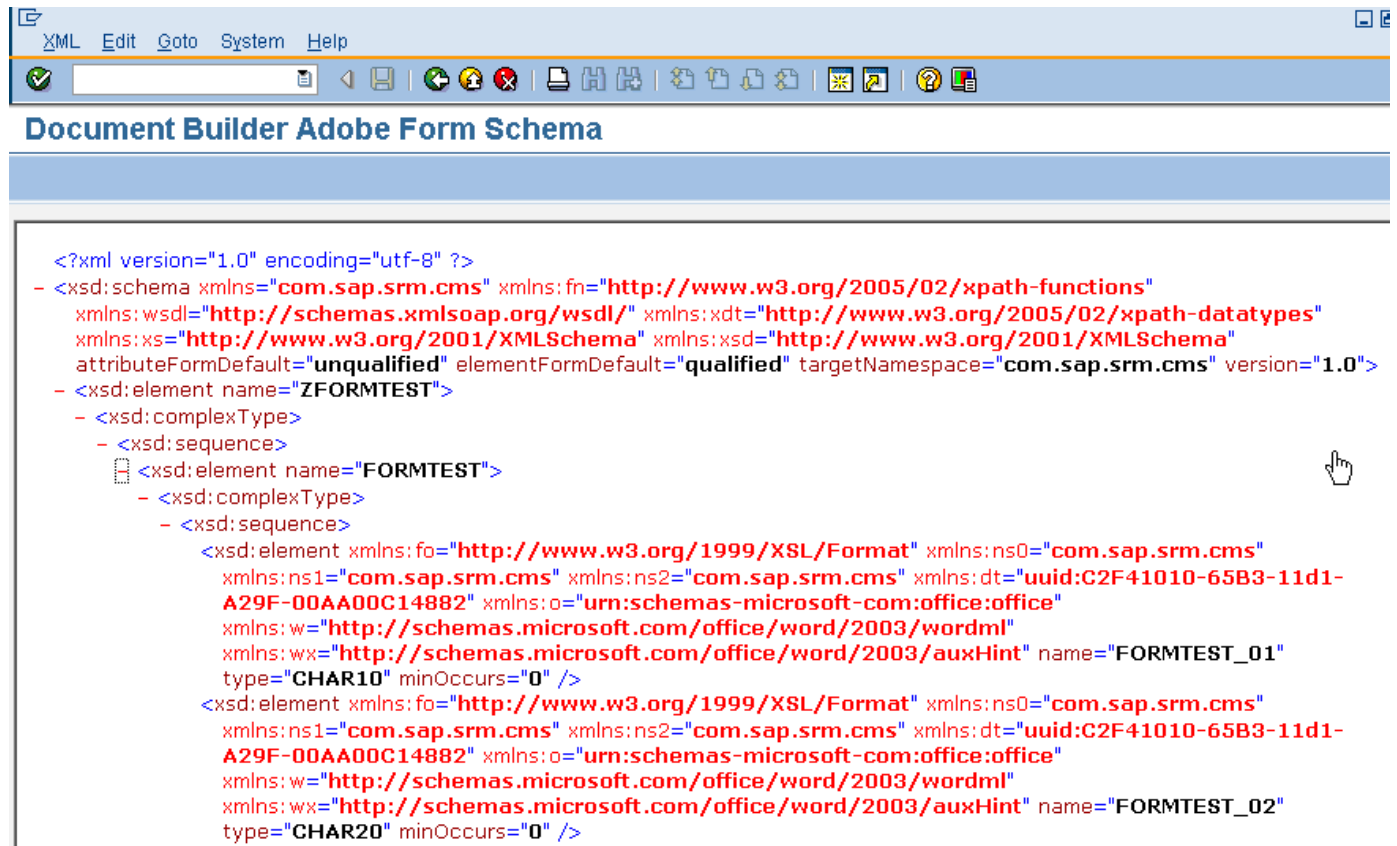
The screenshot shows a software window with a menu bar (Program, Edit, Goto, System, Help) and a toolbar. The main area is titled "Display Output as WSDL" and contains a form with the following fields and options:

Content	FORMTEST
Content Modifier	
Form standard element	FORMTEST
WSDL Message Name	

Below the form are three radio buttons:

- Generate WSDL
- Generate WordML XML Schema
- Generate Form XML Schema

Download the XML schema to your laptop as, say, C:\FORMTEST.XML:



The screenshot shows the Document Builder Adobe Form Schema interface. The main area displays the following XML schema code:

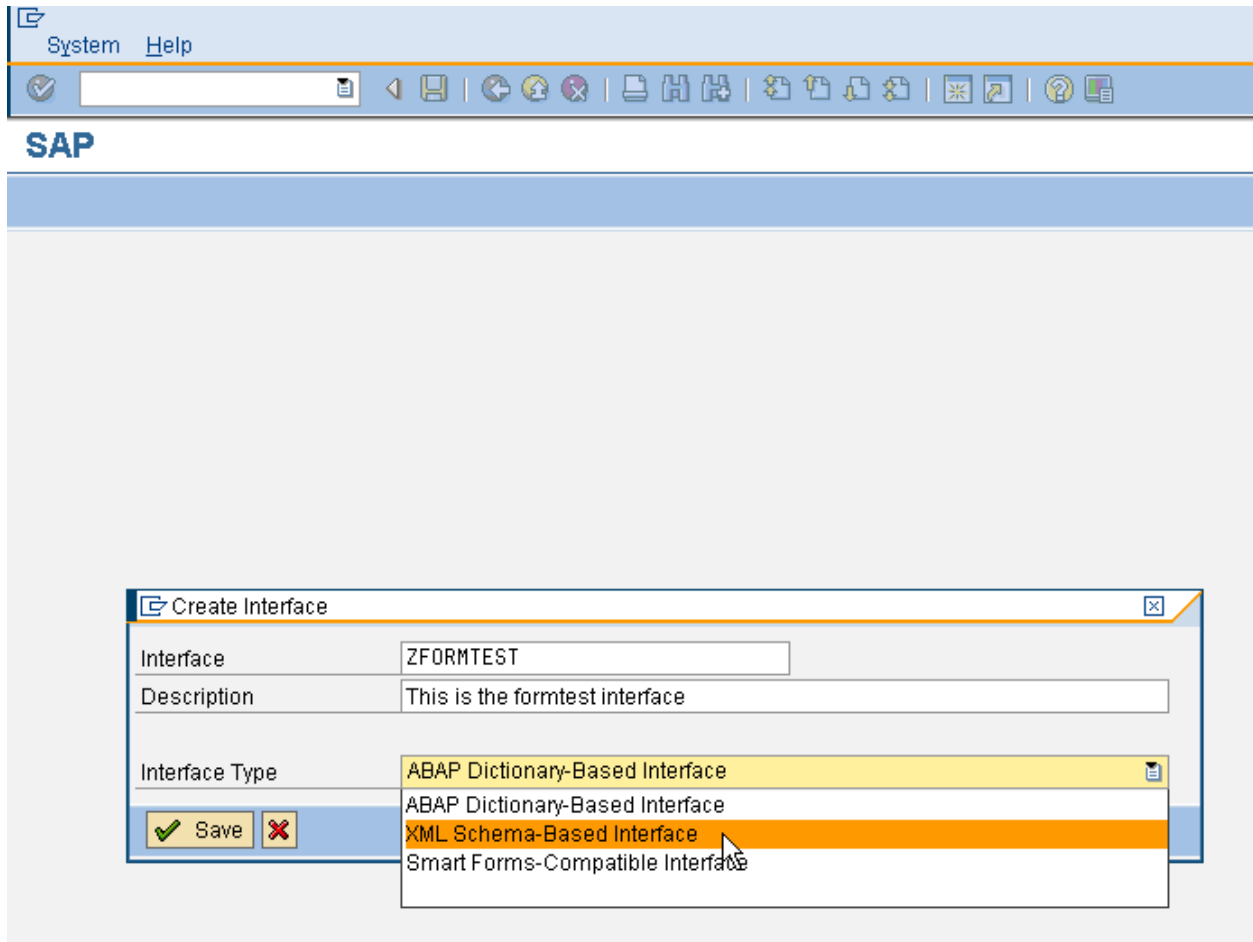
```
<?xml version="1.0" encoding="utf-8" ?>
- <xsd:schema xmlns="com.sap.srm.cms" xmlns:fn="http://www.w3.org/2005/02/xpath-functions"
  xmlns:wSDL="http://schemas.xmlsoap.org/wSDL/" xmlns:xd="http://www.w3.org/2005/02/xpath-datatypes"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  attributeFormDefault="unqualified" elementFormDefault="qualified" targetNamespace="com.sap.srm.cms" version="1.0">
- <xsd:element name="ZFORMTEST">
- <xsd:complexType>
  - <xsd:sequence>
    <xsd:element name="FORMTEST">
      - <xsd:complexType>
        - <xsd:sequence>
          <xsd:element xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:ns0="com.sap.srm.cms"
            xmlns:ns1="com.sap.srm.cms" xmlns:ns2="com.sap.srm.cms" xmlns:dt="uuid:C2F41010-65B3-11d1-
            A29F-00AA00C14882" xmlns:o="urn:schemas-microsoft-com:office:office"
            xmlns:w="http://schemas.microsoft.com/office/word/2003/wordml"
            xmlns:wx="http://schemas.microsoft.com/office/word/2003/auxHint" name="FORMTEST_01"
            type="CHAR10" minOccurs="0" />
          <xsd:element xmlns:fo="http://www.w3.org/1999/XSL/Format" xmlns:ns0="com.sap.srm.cms"
            xmlns:ns1="com.sap.srm.cms" xmlns:ns2="com.sap.srm.cms" xmlns:dt="uuid:C2F41010-65B3-11d1-
            A29F-00AA00C14882" xmlns:o="urn:schemas-microsoft-com:office:office"
            xmlns:w="http://schemas.microsoft.com/office/word/2003/wordml"
            xmlns:wx="http://schemas.microsoft.com/office/word/2003/auxHint" name="FORMTEST_02"
            type="CHAR20" minOccurs="0" />
```

NOTE: the entire schema is contained at the end of this document.

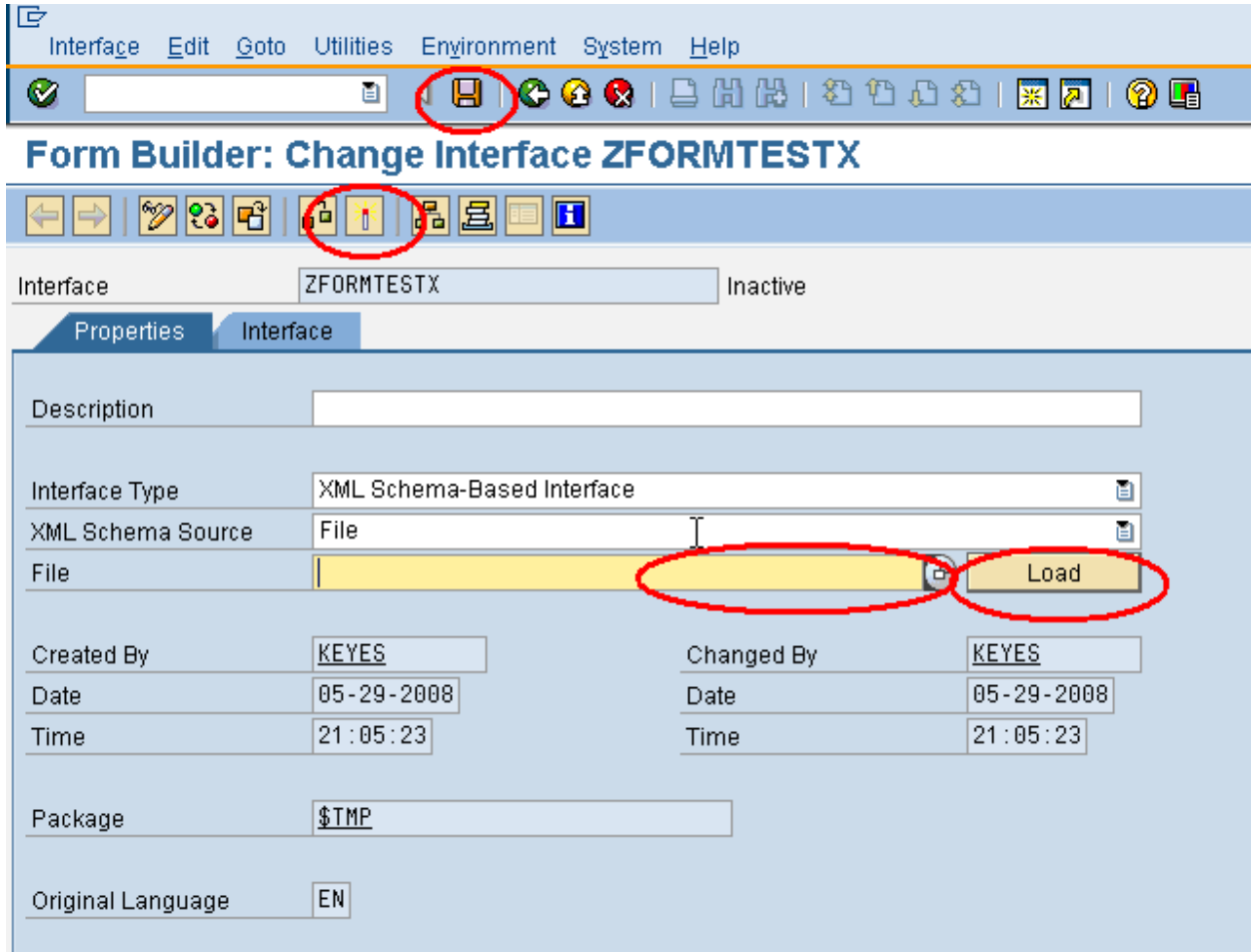
The next step involves building the form interface.

Building the Form Interface

The form interface and the form itself are built using the SFP transaction. The form interface (in our example called ZFORMTEST) is built with the schema that was built above. When you run the SFP transaction to build the interface, be sure to specify the “XML schema-based” type:

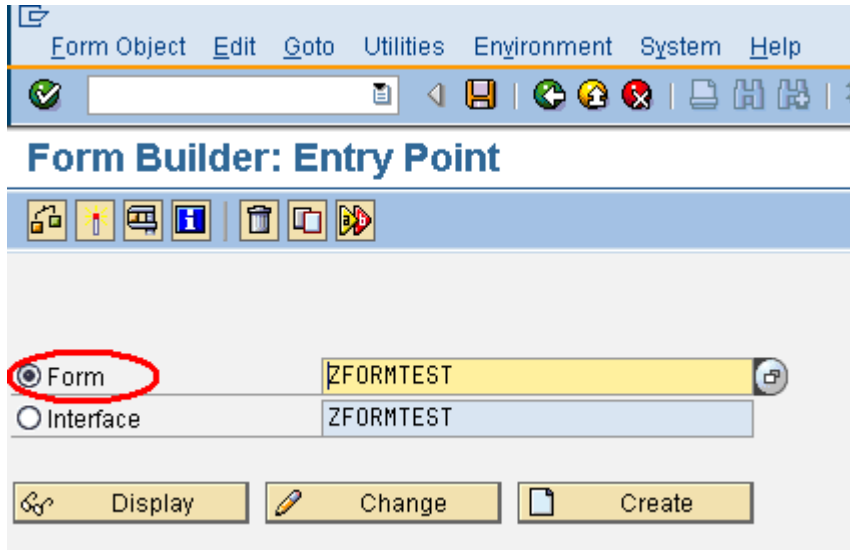


When you click on Save, you'll be prompted to navigate to the XML schema file on your laptop. Once you've specified the file location in the File text field, click on the Load button to load the XML schema. Once loaded, save and activate:



Creating the Form

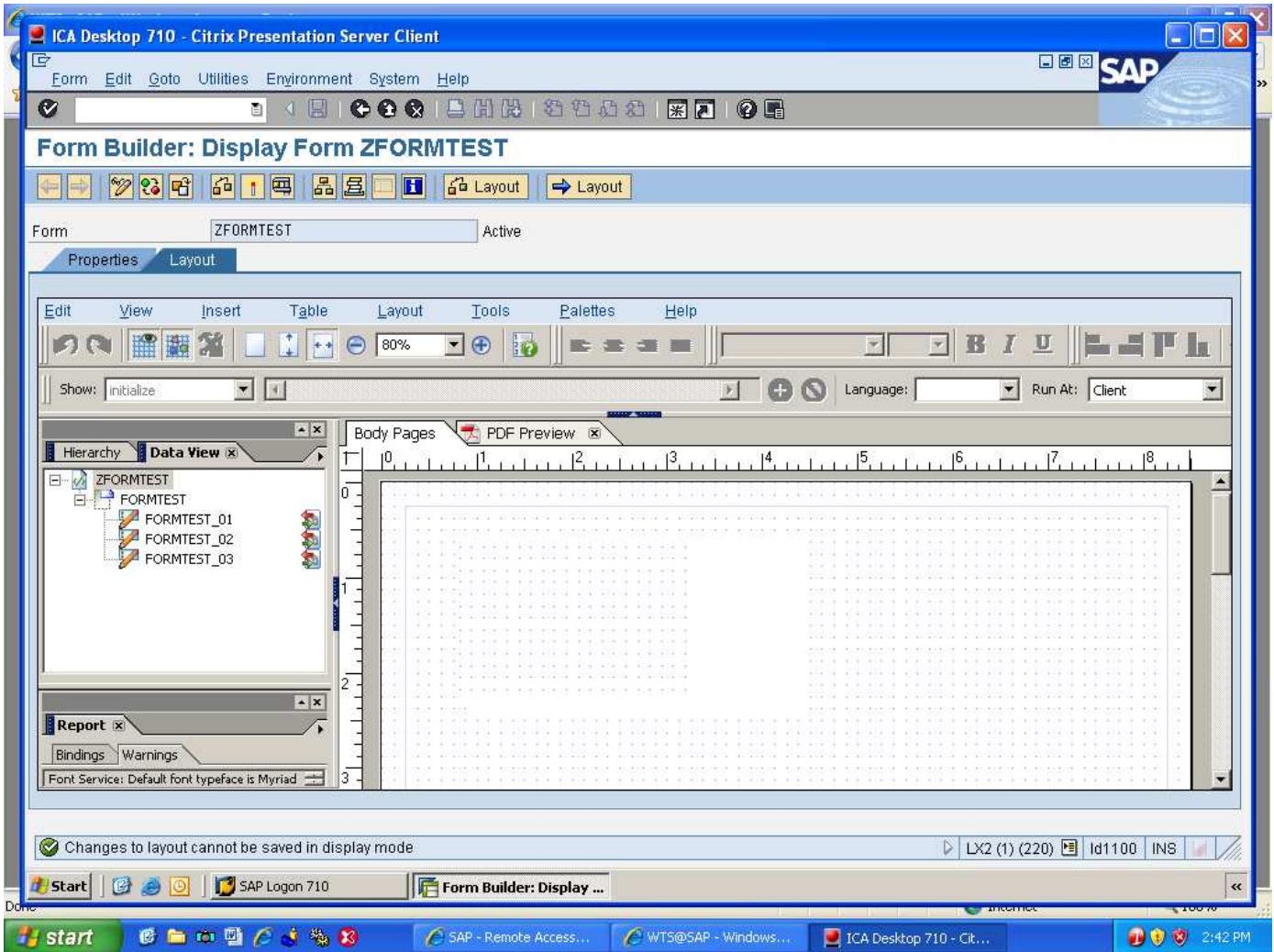
The form, like the interface is created with the SFP transaction:



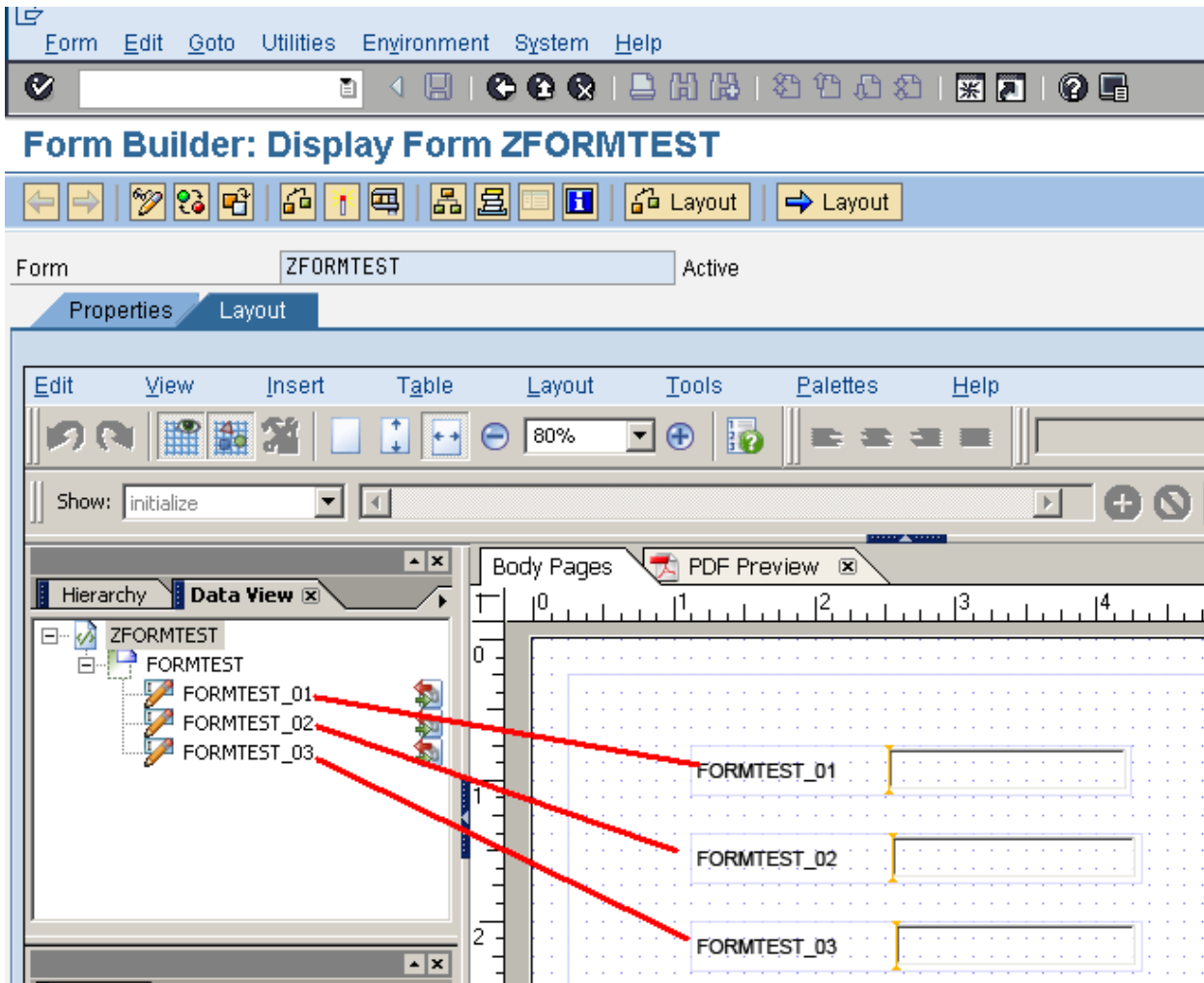
NOTE: the name of the form MUST be the same name that was specified for the form element in the IMG "form name" of the Texts folder (see above). In our example, the form name is ZFORMTEST.

NOTE: the name of the form and the form interface do not have to be the same. Also, you can re-use a form interface for more than one form.

When you open the Layout tab and then open the Data View palette, you'll see the following:



At this point, you can simply drag-and-drop the FORMTEST variables in the Data View on to the Body Page of the form:



At this point, you should save and activate the form.

Using the Form

The interactive form element (FORMTEST) in this example is included in Section A of the FORMTEST document selection, and it's the only element included. The FORMTEST variables (FORMTEST_01, _02 and _03) also show up on the dialog tab because (a) they are included in the FORMTEST content's root variable (FORMTEST_ROOT), and (b) are associated with the FORMTEST element:

Change View "Variable Contained": Overview

Content: FORMTEST
 Variable: FORMTEST_ROOT
 Content Modifier:

Variable Contained		
Variable	Index of entry	Text
FORMTEST_01	10	Formtest variable 01
FORMTEST_02	20	Formtest variable 02
FORMTEST_03	30	Formtest variable 03

Change View "Associated Variables": Overview

Content: FORMTEST
 Element: FORMTEST
 RegSet: FORMTEST
 Content Modifier:
 Effective Date: 02-05-2008
 Version No.: 1

Associated Variables					
Variable	CMod	RO	Req	Index of entry	Fi
FORMTEST_01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	
FORMTEST_02		<input type="checkbox"/>	<input type="checkbox"/>	20	
FORMTEST_03		<input type="checkbox"/>	<input type="checkbox"/>	30	

To use the form, you need to generate a document of document selection FORMTEST from the FORMTEST content:

The screenshot shows the 'Document Builder' interface. At the top, there are tabs for 'Document Data' and 'User Workspace'. Below this, a 'Content' dropdown is set to 'Formtest content'. A 'Search' section includes a 'Show:' dropdown set to 'Worklist'. The 'Search Results' section contains a table with the following data:

Mode	Object Type	Object ID
Create	Document	000000000031789 KEYES

Below the search results is the 'Document Builder' section with a row of buttons: 'Create', 'Edit', 'Copy', 'Delete', 'Save', 'Save as User Template', 'Release', 'Cancel', and 'Refresh'. At the bottom, there are tabs for 'Header Data', 'Dialog', 'Document Summary', 'Preview', and 'Attachments'. The 'General data' section is currently active, showing the following fields:

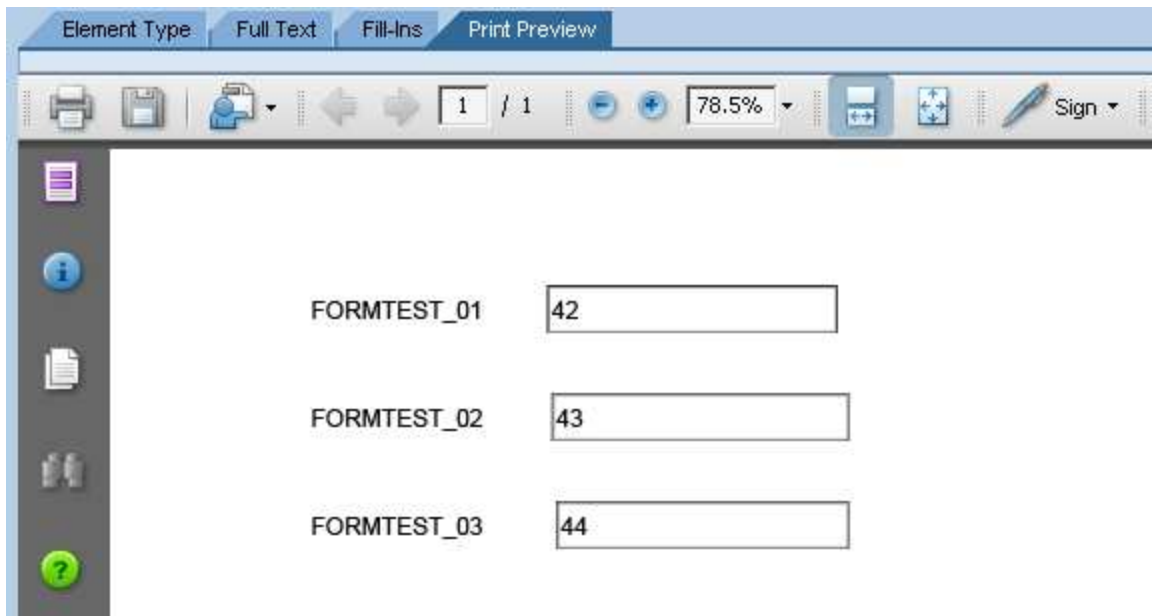
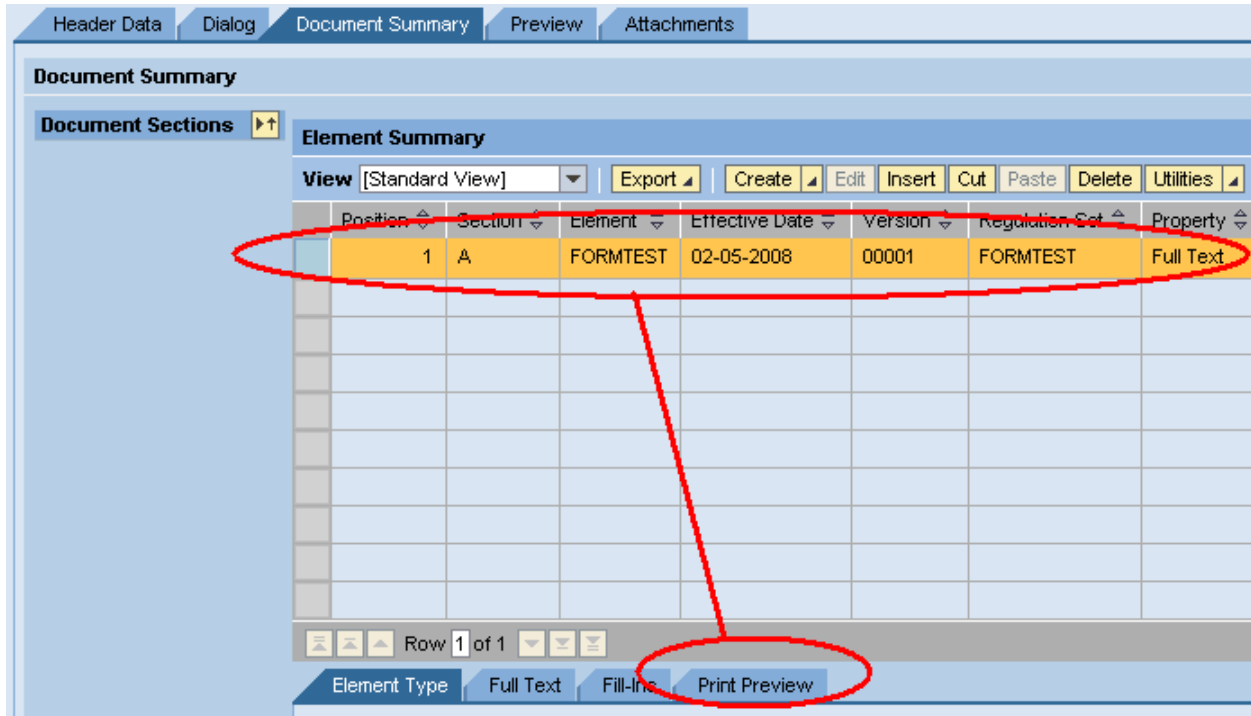
- Document Number: 000000000031789
- Content Modifier: [empty]
- Name: * KEYES 05-29-2008 21:26:00
- Template: [empty]
- Document Selection: * FORMTEST

As mentioned above, the FORMTEST variables show up in the dialog tab. You can supply data for these variables in the dialog and this data will show up in the form fields:

The screenshot shows the 'Dialog' tab in the 'Document Builder' interface. It features a 'Groups' section with buttons for 'Previous', 'Next', and 'Finish with Defaults'. Below these are 'Document data groups' with a dropdown menu showing 'Formtest root variable'. To the right, there are three input fields for variables:

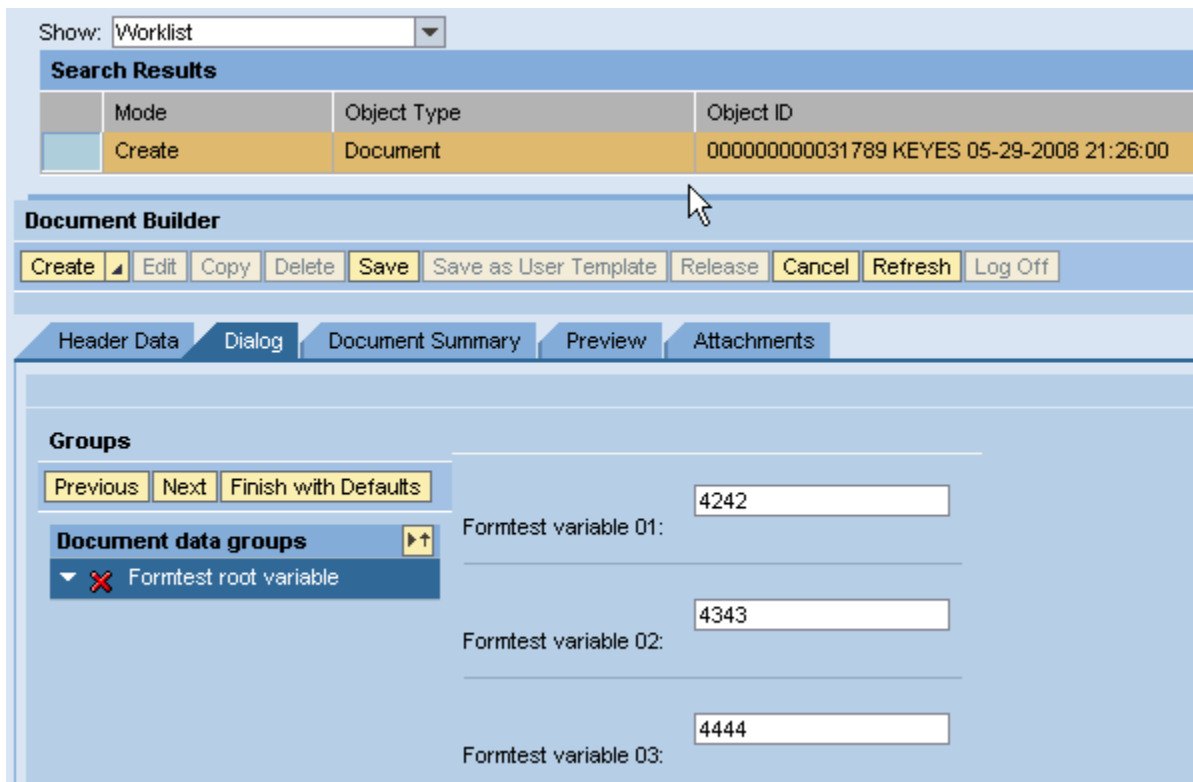
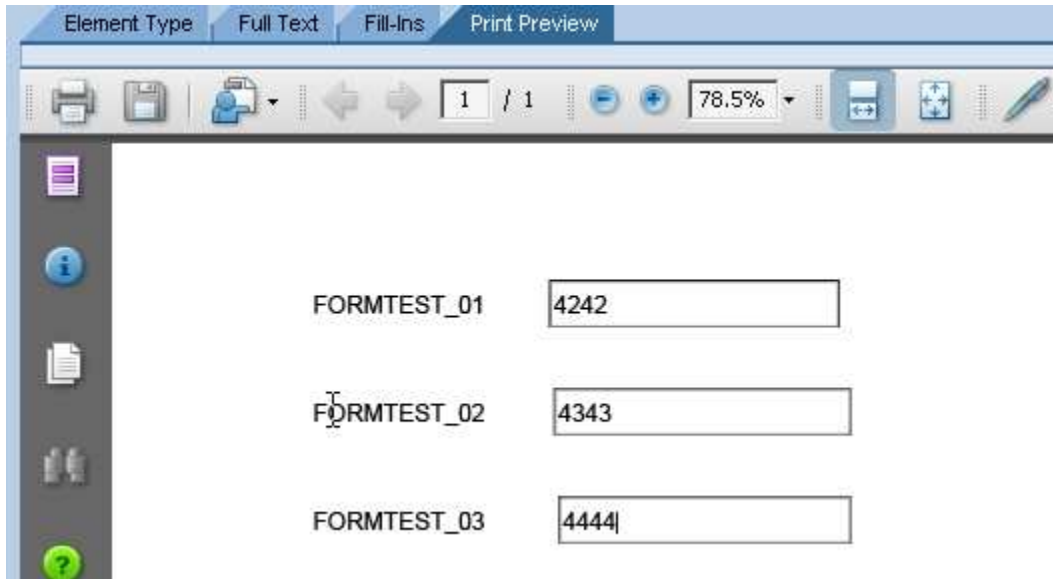
- Formtest variable 01: 42
- Formtest variable 02: 43
- Formtest variable 03: 44

To see the form, navigate to the Document Summary tab, select the FORM test element and open the Print Preview tab:



You can see that the data supplied in the dialog tab appears in the form.

You can change the data in the interface form, click Refresh, and switch back to the dialog tab to see the updated data:



If you save the document, the data supplied in the interactive form is saved along with the document and is available the next time the document is opened.

Show:

Search Results

Mode	Object Type	Object ID
Create	Document	000000000031789 KEYES 05-29-2008 2

Document Builder

Header Data | **Dialog** | Document Summary | Preview | Attachments

Groups

Document data groups

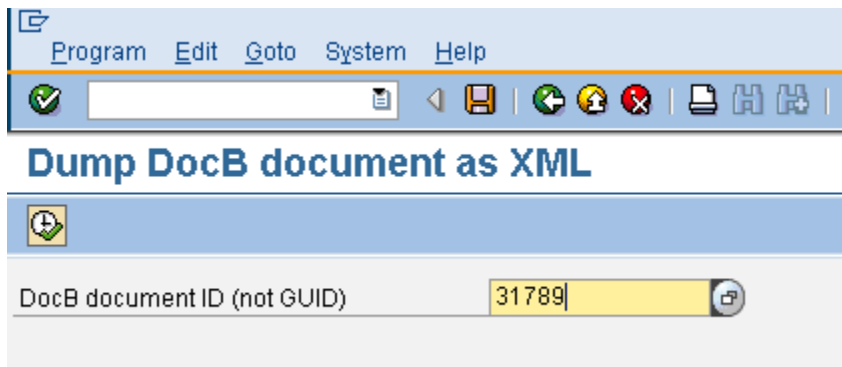
- Formtest root variable

Formtest variable 01:

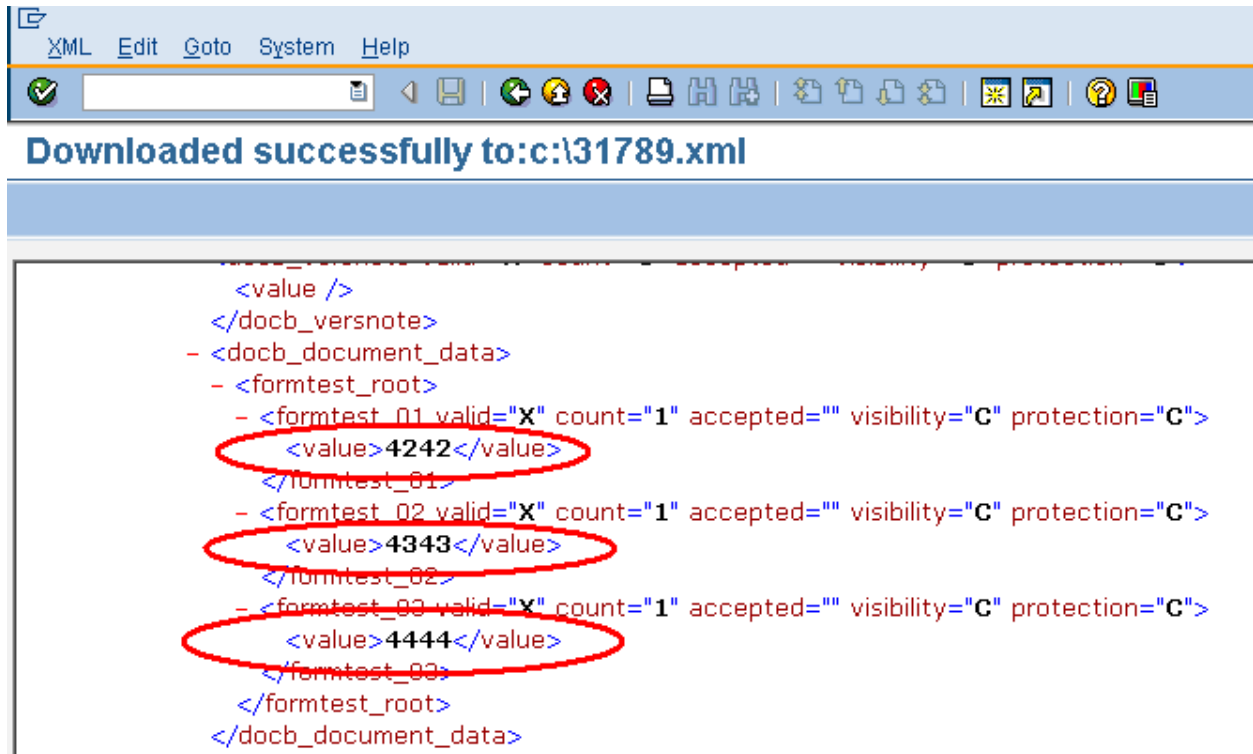
Formtest variable 02:

Formtest variable 03:

I have a report that dumps the document's data as XML (document number 31789) after it has been saved:



You can see that the data has been saved from the XML dump:



Downloaded successfully to:c:\31789.xml

```
<value />
</docb_versnote>
- <docb_document_data>
- <formtest_root>
- <formtest_01 valid="X" count="1" accepted="" visibility="C" protection="C">
  <value>4242</value>
</formtest_01>
- <formtest_02 valid="X" count="1" accepted="" visibility="C" protection="C">
  <value>4343</value>
</formtest_02>
- <formtest_03 valid="X" count="1" accepted="" visibility="C" protection="C">
  <value>4444</value>
</formtest_03>
</formtest_root>
</docb_document_data>
```

Complete XML Form Schema for Form ZFORMTEST

```
<?xml version="1.0" encoding="utf-8"?>
<xsd:schema xmlns="com.sap.srm.cms"
  xmlns:fn="http://www.w3.org/2005/02/xpath-functions"
  xmlns:wSDL="http://schemas.xmlsoap.org/wSDL/"
  xmlns:xdt="http://www.w3.org/2005/02/xpath-datatypes"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  attributeFormDefault="unqualified" elementFormDefault="qualified"
  targetNamespace="com.sap.srm.cms" version="1.0">
  <xsd:element name="ZFORMTEST">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="FORMTEST">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element xmlns:fo="http://www.w3.org/1999/XSL/Format"
                xmlns:ns0="com.sap.srm.cms" xmlns:ns1="com.sap.srm.cms" xmlns:ns2="com.sap.srm.cms"
                xmlns:dt="uuid:C2F41010-65B3-11d1-A29F-00AA00C14882"
                xmlns:o="urn:schemas-microsoft-com:office:office"
                xmlns:w="http://schemas.microsoft.com/office/word/2003/wordml"
                xmlns:wx="http://schemas.microsoft.com/office/word/2003/auxHint"
                name="FORMTEST_01" type="CHAR10" minOccurs="0"/>
              <xsd:element xmlns:fo="http://www.w3.org/1999/XSL/Format"
                xmlns:ns0="com.sap.srm.cms" xmlns:ns1="com.sap.srm.cms" xmlns:ns2="com.sap.srm.cms"
                xmlns:dt="uuid:C2F41010-65B3-11d1-A29F-00AA00C14882"
                xmlns:o="urn:schemas-microsoft-com:office:office"
                xmlns:w="http://schemas.microsoft.com/office/word/2003/wordml"
                xmlns:wx="http://schemas.microsoft.com/office/word/2003/auxHint"
                name="FORMTEST_02" type="CHAR20" minOccurs="0"/>
              <xsd:element xmlns:fo="http://www.w3.org/1999/XSL/Format"
                xmlns:ns0="com.sap.srm.cms" xmlns:ns1="com.sap.srm.cms" xmlns:ns2="com.sap.srm.cms"
                xmlns:dt="uuid:C2F41010-65B3-11d1-A29F-00AA00C14882"
                xmlns:o="urn:schemas-microsoft-com:office:office"
                xmlns:w="http://schemas.microsoft.com/office/word/2003/wordml"
                xmlns:wx="http://schemas.microsoft.com/office/word/2003/auxHint"
                name="FORMTEST_03" type="CHAR10" minOccurs="0"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:simpleType name="CHAR10">
    <xsd:restriction base="xsd:string">
      <xsd:maxLength value="10"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:simpleType name="CHAR20">
    <xsd:restriction base="xsd:string">
      <xsd:maxLength value="20"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:schema>
```