Document Types

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Duration: 15 minutes

Integration Server (IS) Document Types are simply reusable data structures. They often represent an XML Schema definition. In this tutorial you will create two Document Types: one manually, and the second by an external artifact (in this case an XML Schema Definition).

Prerequisites

This tutorial builds on concepts, techniques, and objects covered previously in:

- *1. Create an IS Package and Folders*
- *2. Create and Run a Flow Service*
- The tutorials above must be completed or you can import the solution: Completed Export of 2. Create and Run a Flow Service.zip (http://techcommunity.softwareag.com/ecosystem/export/sites/default/public/webmethods/products/esb_and_integration/codesamples/.attachments/20140411131939375_000_Completed (http://techcommunity.softwareag.com/protected/download/developer-communities/webmethods/FreeTrial/Completed Export of 2. Create and Run a Flow Service.zip) using these instructions: Import an IS Package (http://softwareag.com/)
- The IS must be started. Instructions on how to start the IS are found in the **Prerequisites** part of the 1. Create an IS Package and Folders (http://techcommunity.softwareag.com/pwiki/-/wiki/Main/webMethods+Flow+Tutorial+-+Create+an+IS+Package+and+Folders) FLOW tutorial.

Step Outline

You create Document Types either by:

- Manually creating the Document Type and defining its data structure
- Referencing an external source that defines a document structure, such as an XSD file

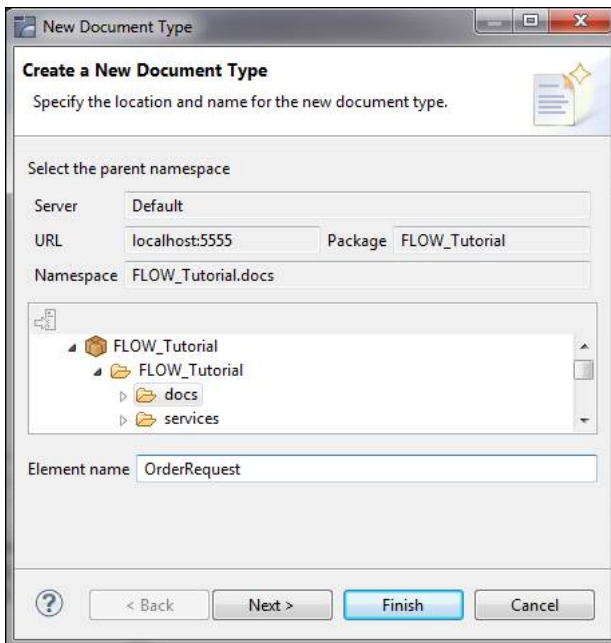## Step 1: Manually Create a Document Type #

In this step: You will create a document type and define the data elements that it contains.

To manually create a **Document Type:**

- From Designer, right-click on the **FLOW_Tutorial.docs** folder and select **New > Document Type**
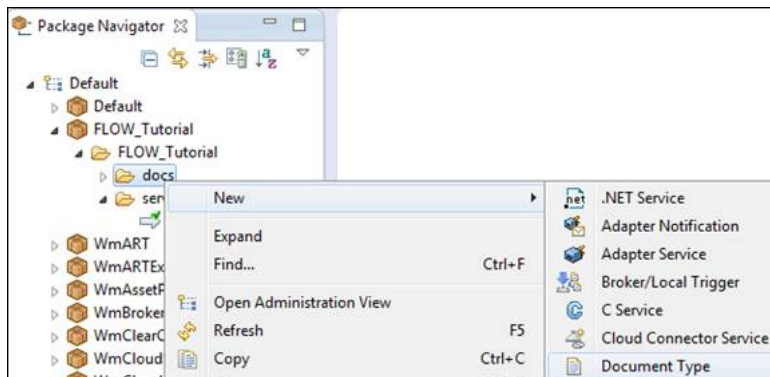
- In the **New Document Type** dialog, enter **OrderRequest** in the **Element name** field and click the **Finish** button:
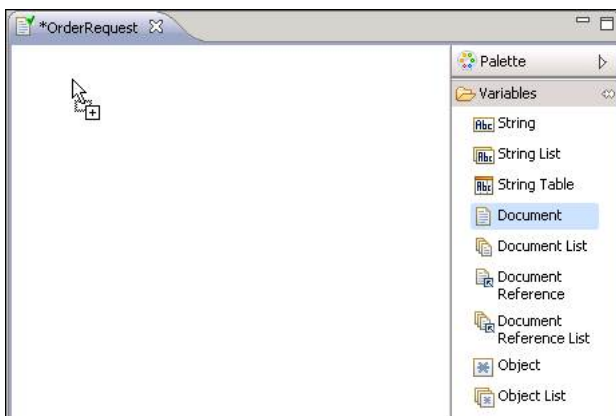
Designer opens the new **OrderRequest** Document in the Document Type Editor. You can now add elements to the Document Type.

Step 2: Add Elements to the Document Type

In this step: You will add elements to define the structure of the new Document Type.

- Expand the **Palette** on the right side of the **Document Type Editor**.

Insert a Document element into your **OrderRequest** Document Type.

- From the **Palette**, drag a **Document** onto the white space of the **Document Type Editor** view:

Designer adds the new **Document** element to your Document Type.

- Name the new element **Request:**

- Insert a String named **Sender** and a **Document List** named **Orders** as children of the **Request** root element (drag and drop them on top of the **Request** document to add them under the **Request** document):
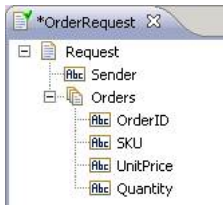

Note: You may change the order and indentation/hierarchy of the Document Type elements by using the **Shift** buttons on the Designer toolbar:
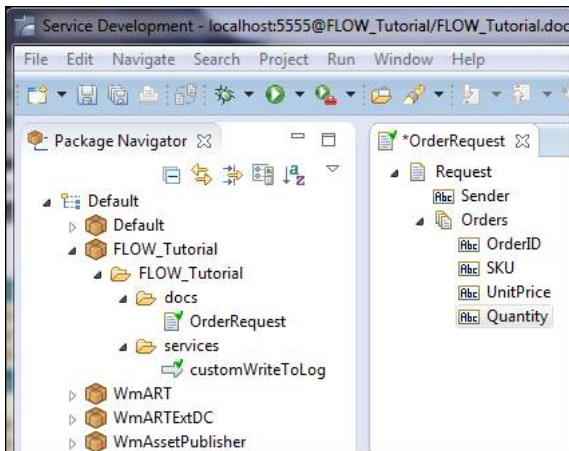
- Insert the following **String** elements as children of the **Orders Document List:**

o OrderID

o SKU

o UnitPrice

o Quantity

- Collapse and expand the Orders node to ensure that the child nodes are indented correctly
- Select the Save icon in the Designer toolbar:

Note: You may add elements (variables, fields) to your Document Type in several ways:

1) Click-and-click: click on a variable type such as **String** in the **Palette** and then click again on the white space area of the **Document Type Editor**

2) Click-and-drag: click on a variable type such as **String** in the **Palette** and then drag it onto the white space area of the **Document Type Editor**

3) Toolbar insert button: instead of using the **Palette** on the right side of the **Document Type Editor**, you may use the **Insert** button

at the top of the window in the Designer toolbar (use the drop-down arrow for the same options as the Palette, or click the button for the same variable type as previously added (default is a String))

4) Right-click: right-click on the white space of the **Document Type Editor**, and choose **Insert->** from the context menu

5) Drag from Package Navigator: you may also drag Document Types directly from the **Package Navigator** view (inserted as a Document Reference)

6) Copy/paste: elements may be pasted into your Document Type, having been cut/copied from other parts of a Document Type; copied from the **Package Navigator** view (as a Document Reference); or copied from the input/output of services, the **Pipeline** view of a flow service, or the service debugger

The new **FLOW_Tutorial.docs:OrderRequest** document type is now ready for use.

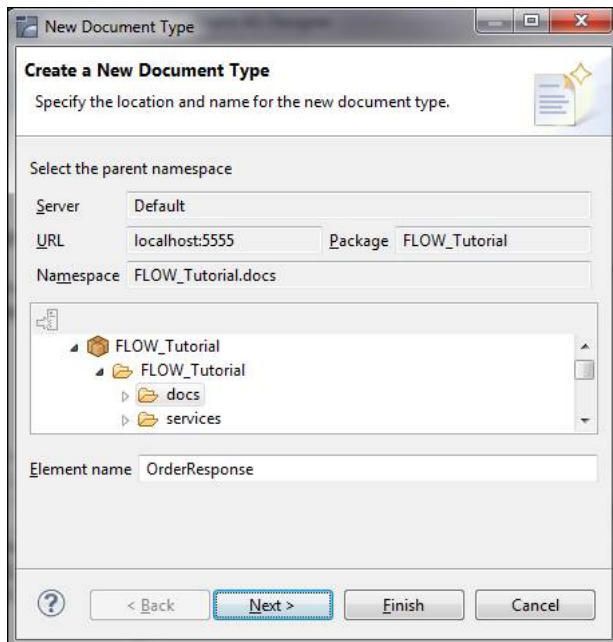## Step 3: Create a Document Type from an XML Schema Definition #

You can create Document Types from external sources, such as XML Schema, DTDs, or even XML instances.

In this step: You will create a Document Type from an XSD (XML Schema Definition) file. To create a Document Type from an XSD:

- Right-click on the **FLOW_Tutorial.docs** folder and select **New > Document Type:**
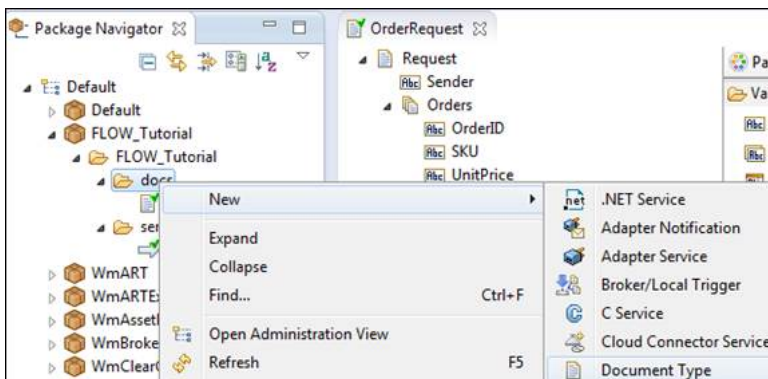
In the **New Document Type** wizard, enter **OrderResponse** in the **Element name** field and click the **Next** button:
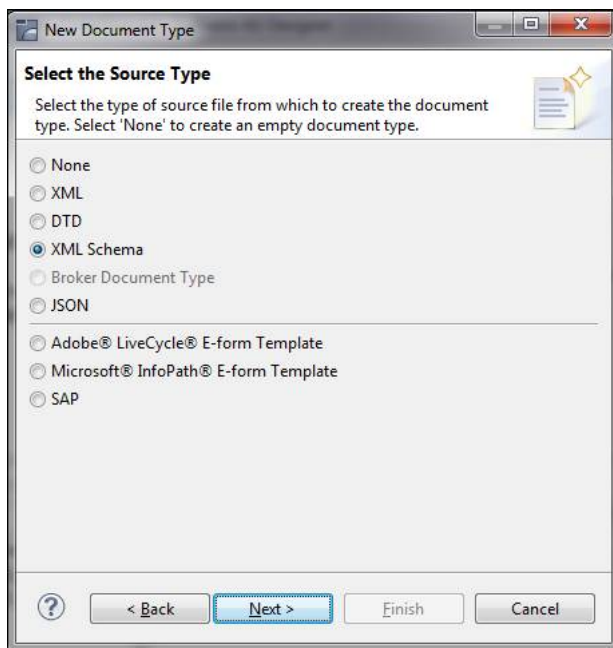

Important: You must click **Next** to import a Document Type from a source such as a schema. Clicking **Finish** will create an empty Document Type.
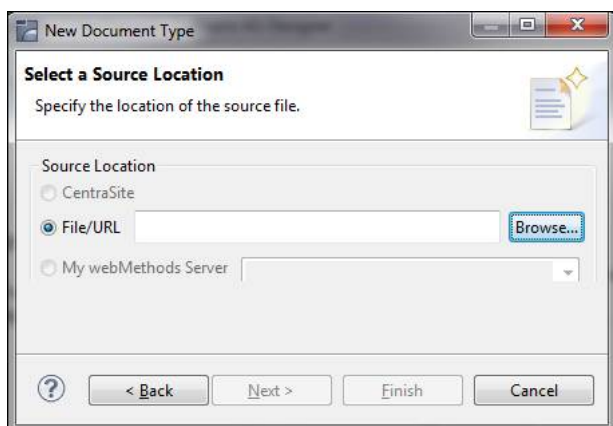
The New Document Type wizard prompts you to select a source for the new Document Type.

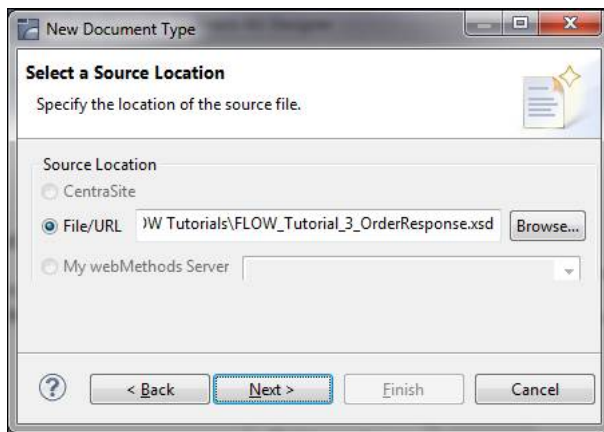- Select XML Schema, then click the **Next** button:

- Click the **Browse**… button to select the XSD file:

- Download and select the **FLOW_Tutorial_3_OrderResponse.xsd** (http://techcommunity.softwareag.com/protected/download/developer-communities/webmethods/FreeTrial/FLOW_Tutorial_3_OrderResponse.xsd) (http://softwareag.com/), then select Next:
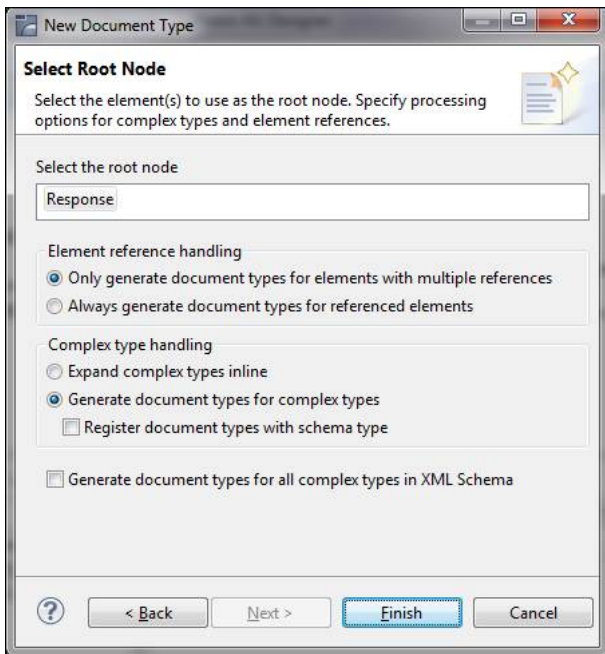

- In the **Select Processing Options** dialog, accept the defaults and click the **Next >** button:
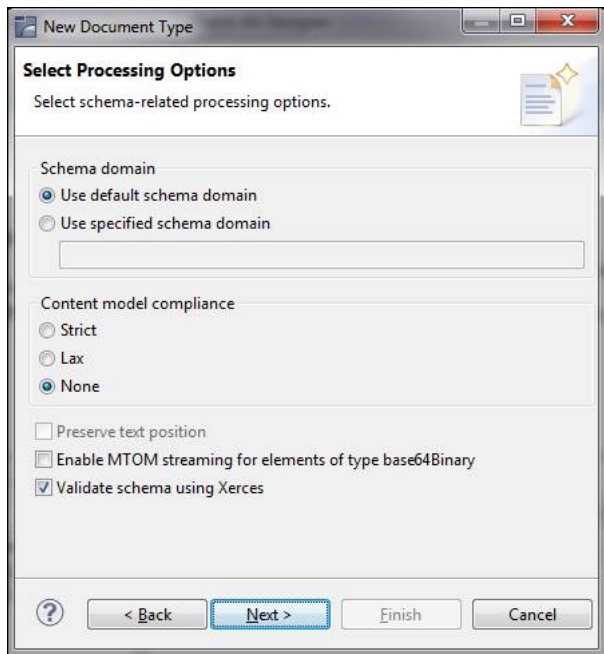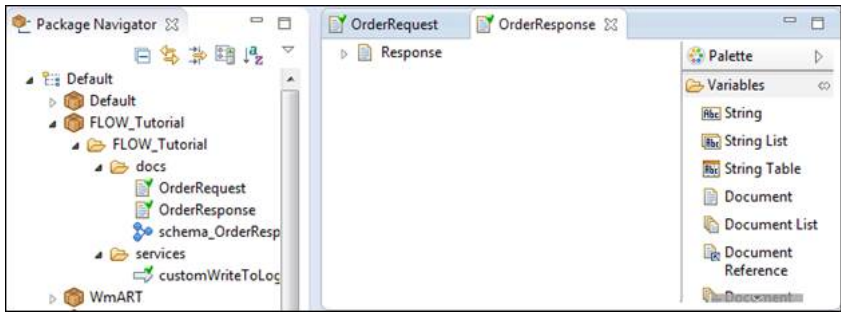

The New Document Type wizard prompts you for the root node of the Document Type and for the type of schema processing to perform.

Note: Response is the only available node in this XSD.

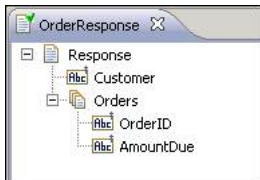- Accept the defaults and click the **Finish** button:

Designer generates the new Document Type and opens it in the editor:

Note: When you create a new Document Type from an external source, Designer automatically creates a new IS Schema type for validation purposes.

- Expand the Response Document Type in the editor to examine its structure:

Conclusion

You have created IS Document Types using two different methods. You will use these Document Types in subsequent tutorials.

To import the solution of this tutorial download Completed Export of 3. Create Document Types.zip (http://techcommunity.softwareag.com/ecosystem/download/developer-communities/webmethods/FreeTrial/Completed Export of 3. Create Document Types.zip) (http://softwareag.com/) and follow the directions in the Import an IS Package (http://techcommunity.softwareag.com/pwiki/-/wiki/Main/Import+an+IS+Package) (http://softwareag.com/) tutorial

20 Attachments (http://techcommunity.softwareag.com/pwiki?
p_p_id=36&p_p_lifecycle=0&p_p_state=pop_up&p_p_mode=view&_36_struts_action=%2Fwiki%2Fview_page_attachments&p_r_p_185834411_nodeName=Main&p_r_p_185834411_title=webMethods+Flow+Tutorial+-+No.3+Create+Document+Types&_36_redirect=http%3A%2F%2Ftechcommunity.softwareag.com%2Fpwiki%2F-%2Fwiki%2FMain%2FwebMethods%2BFlow%2BTutorial%2B-%2BNo.3%2BCreate%2BDocument%2BTypes%2Fpop_up%3F_36_viewMode%3Dprint)

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