

# **TIBCO Foresight® Products**

## **Using XML**

*August 2017*

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# Contents

<b>Introduction</b>	<b>1</b>
Intended Audience .....	1
TIBCO Foresight Products that work with XML .....	1
Overview .....	2
Demos .....	3
Tutorial .....	4
Importing the Schema into EDISIM .....	4
Editing the Schema in EDISIM .....	5
Validating data with EDISIM Validator or HIPAA Validator Desktop .....	8
Validating data with Instream .....	9
Printing Guideline Documentation .....	9
 <b>Using Standards Editor with Schemas and DTDs</b>	 <b>11</b>
Importing a Schema or DTD .....	11
Opening a Schema or DTD .....	12
Top Pane .....	13
Bottom Pane .....	14
Details View Pane .....	14
Code Values Pane .....	15
Cross Reference Pane .....	15
Editing a Schema or DTD .....	16
SCHEMA Section .....	16
Values .....	16
Types .....	18
Localizing an Element .....	25
Reference Example .....	27
Business Rules .....	28
Business Rules that Do Not Apply to XML .....	33
Properties .....	33
Exporting a schema or DTD .....	34
SEF .....	35
 <b>Printing DTDs and schemas</b>	 <b>37</b>
Printing formatted guideline documentation .....	37
Printing a text report .....	40
 <b>Using EDISIM Validator with XML</b>	 <b>41</b>
Before you validate XML .....	41
TIBCO Foresight programs that validate XML .....	41
Opening EDISIM Validator .....	42
Validating XML data .....	42
Validating with EDISIM Validator .....	42
Viewing the results .....	43
Creating an HTML report of XML validation results .....	43
 <b>Splitting XML data</b>	 <b>45</b>

Overview .....	45
XML splitting demo .....	46
INI file for splitting XML data.....	46
Guideline and APF changes for splitting XML data.....	50
Docsplitter command line for splitting XML data .....	50

# Introduction

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## Intended Audience

This document is intended for users who wish to use TIBCO Foresight programs with XML data.

You will need a basic knowledge of XML and of the TIBCO Foresight programs that you will use with XML as described in the next section.

## TIBCO Foresight Products that work with XML

TIBCO Foresight products can use XML on Windows platforms only.

Program	What you can do	For more information, see ...
TIBCO Foresight® EDISIM® 6.7 or later (Standards Editor, Doc Builder, EDISIM® Validator)	Import, create, edit, print schemas and DTDs  Validate XML data  Create documentation	EDISIM's Documentation directory:  - <b>TIB_fsp_edisim_&lt;n.n&gt;_fseditor.pdf</b> - <b>TIB_fsp_edisim_&lt;n.n&gt;_fsdocbld.pdf</b> - <b>TIB_fsp_edisim_&lt;n.n&gt;_fsvalidator.pdf</b>
TIBCO Foresight® HIPAA Validator® Desktop	Validate XML data	See <b>TIB_fsp_edisim_&lt;n.n&gt;_fsvalidator.pdf</b> in HIPAA Validator® Desktop's Doc directory
TIBCO Foresight® Instream® (validate, Document Splitter)	Validate XML data  Split into good and bad data	Instream®'s Doc directory:  - <b>TIB_fsp-instream_&lt;n.n&gt;_usersguide .pdf</b> - <b>TIB_fsp-instream_&lt;n.n&gt;_docsplitter.pdf</b>

# Overview

You can:

- Import a schema or DTD into EDISIM Standards Editor, where you can edit it, including adding business rules.
- Validate XML data against the schema or DTD in EDISIM Validator, HIPAA Validator Desktop, or Instream.
- Split good from bad data with Document Splitter.

Since XML is not firmly based on standards the way EDI is, you will notice differences in how it is implemented in TIBCO Foresight products:

- EDI has guidelines, XML has schemas and DTDs.
- You must have EDISIM to use XML at TIBCO Foresight. It creates a TIBCO Foresight “guideline” (STD file) from the schema or DTD.
- EDISIM Standards Editor imports, edits, and exports schemas and DTDs. Any valid schema or DTD will work.
- In EDISIM, XML enumerated values are stored in application value lists rather than code lists.
- You can create a schema or DTD from scratch in EDISIM but it is currently much easier to create it another way and then import it.
- APF files are honored by XML validations.
- Instream validates and splits XML under Windows only.
- HIPAA Validator® Desktop’s Library does not work with XML guidelines.
- Some XML resources
  - <http://www.w3schools.com/xml/default.asp>  
XML tutorial
  - <http://www.w3schools.com/schema/default.asp>  
Schema tutorial
  - <http://www.w3.org/XML/Schema>  
Schema reference
  - <http://www.xml.com/axml/testaxml.htm> .  
Annotated XML specification

# Demos

For a complete list of demos, see **Demo\_Index.pdf**.

Program	Data file	Validate with ...
EDISIM	<b>XML_PO_f.xml</b> <b>XML_PO_g.xml</b> in EDISIM's Samples directory	<b>XML_PO_F</b> <b>XML_PO_G</b> (use EDISIM Validator)
HIPAA Validator Desktop	<b>XML_PO_f.xml</b> in HIPAA Validator Desktop's DemoData directory	<b>XML_PO_F</b>
HIPAA Validator Desktop	<b>XML_275.txt</b> in HIPAA Validator Desktop's DemoData directory	Start with <b>275_X151</b> Select <b>XHL7</b> when it reaches the Bin segment
Program	Script	Output
Instream	<b>V_XML_PO</b> in Instream's Scripts directory	<b>XML_PO_f_Results.txt</b> or <b>XML_PO_Results.txt</b> in Instream's Output directory
Instream (HIPAA)	V_DS_XML_split_PO ValidationHighlighter_XML	Various files in Instream's Output directory
Validation Highlighter	<b>ValidationHighlighter_XML</b> in Instream's Scripts directory	<b>XML_PO_f.html</b> or <b>XML_PO.html</b> in Instream's Output directory
Translator	T_837I_4010_to_XML_and_back	<b>837Iclean_edi.txt</b> <b>837Iclean_xml.xml</b> In Translator's Output directory

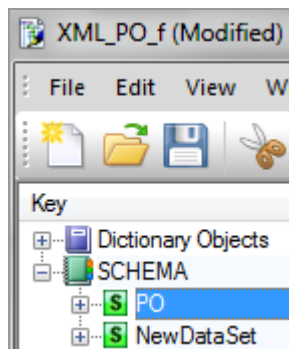
# Tutorial

This tutorial will walk you through the most basic steps in editing a schema and validating XML data with it.

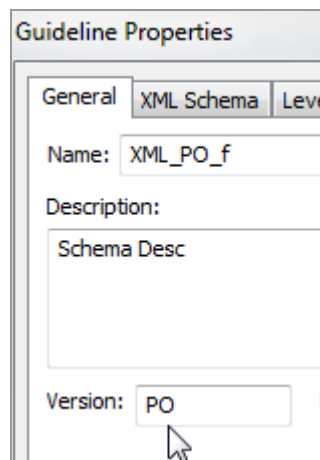
## Importing the Schema into EDISIM

1. Open EDISIM Standards Editor.
2. Choose **File | Import | Import XML Schema and open**.
3. Go to EDISIM's **Samples** directory and choose **XML\_PO\_f.xsd**.
4. In the Import Standard box, use **XML\_PO\_f** and click **OK**.
5. Set up the version.

To do this, expand the SCHEMA line and notice that the root element is called PO. In TIBCO Foresight XML guidelines, we use the name of the root element as the version.



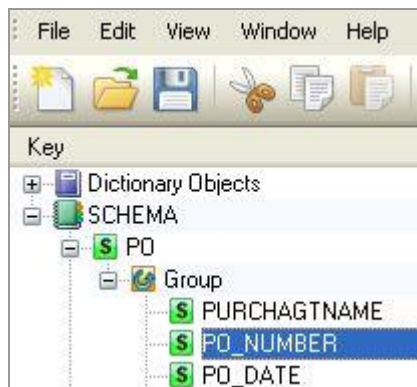
Choose **File | Properties | General** tab and type PO for Version (it will initially have VRI, which is just a placeholder):





## Editing the Schema in EDISIM

1. Expand the PO element and select the **PO\_NUMBER** element:



2. In the bottom pane, enter Purchase Order Number for **Description** and change its **Minimum Occurrences** to **1** to indicate that it must be used.
3. Select **PO\_DATE** in the top pane. In the bottom pane, enter Purchase Order Date for its Description, and add this **Length** and **Pattern**:

Type:	:string
Length:	8
Pattern:	[0-9]+

The pattern can be anything from the full set of regular expressions. This one means that it can contain only digits. See the Help menu for more examples.

4. Acceptable XML data values are called enumerations. These go in application values lists rather than in the code value pane.

Right-click on **BT\_COUNTRY** and choose **Application Values...**

Set up the application value list like this:

Current Location :

Attached Value List : Country

Value List: Country

Description: Billing Address Country

Country

Value 0 of 1 1 reference(s)

US

Value

Buttons: Detach, Delete List, View Refs..., Attach, Close, Modify, Delete

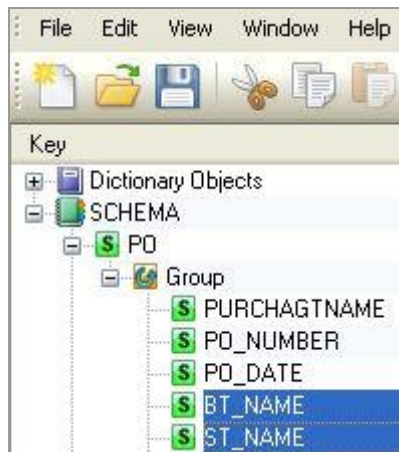
Click **Attach**. This requires that the value for this element always be US.

- Under **ORDERS | Group**, set the Min to **1** in the top pane for  
 LINE\_ITEM  
 PROD\_QTY  
 PROD\_UNITS  
 UNIT\_PRICE  
 PROD\_NUM

<b>ORDERS</b>		0	>1
Group	Seq	1	1
LINE_ITEM	:string	1	1
PROD_QTY	:string	1	1
PROD_QTY2	:string	0	1
PROD_UNITS	:string	1	1
UNIT_PRICE	:string	1	1
PROD_NUM	:string	1	1
PROD_DESC	:string	0	1

This means that these are required.

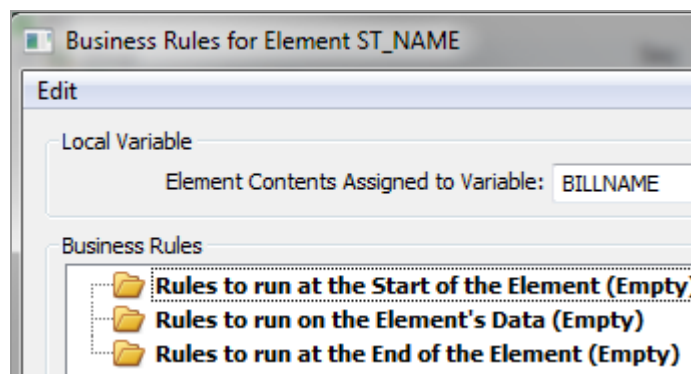
6. We want to ensure that we get either a BT\_NAME or a ST\_NAME.



Set up a variable on the first one.

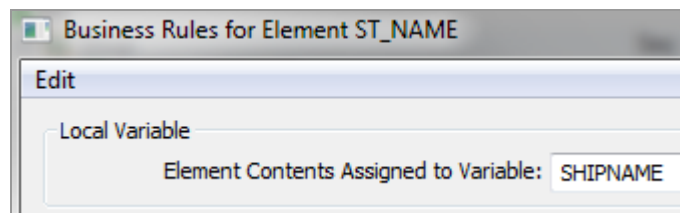
Right-click on **BT\_NAME**.

Capture the contents in a variable called BILLNAME:



Click **OK**.

7. Right-click on the other element in the condition, **ST\_NAME**, and set up this variable:



Close and re-open the business rules dialog and click **NEW**:



Make these selections in the **When to Run Rule** area:

**When to Run Rule**

☐ Always

☒ Conditionally

	Local Variable	Operator
when	BILLNAME	DOESN'T EXIST
when	SHIPNAME	DOESN'T EXIST

And

Select **DisplayErrorByNumber** in the What Rule to Run drop box, and set this up to display an error message if the elements don't exist. (If the grid doesn't appear, click the Text button.)

**What Rule to Run**

DisplayErrorByNumber  ☐ Look-Ahead Rule

Parameter Name	Parameter Value
ErrorNumber	0
Severity	0
<b>MessageText</b>	"Must send BT_NAME or ST_NAME"

Click **OK** twice.

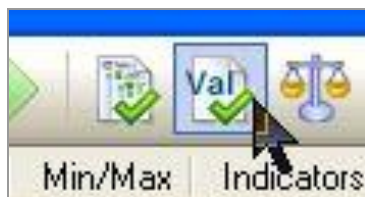
8. Save.

See **BusinessRules.pdf** for more information.


## Validating data with EDISIM Validator or HIPAA Validator Desktop

You can now validate XML data using **XML\_PO\_f**.

1. Click the EDISIM Validator toolbar button within Standards Editor:



This opens EDISIM Validator, which is installed in EDISIM's Bin directory.

(If you want to use HIPAA Validator Desktop instead, copy XML\_PO\_f.std from EDISIM's User Files\Public Guidelines directory to HIPAA Validator Desktop's Database directory and then open Desktop. You may have the  HIPAA Validator Desktop toolbar button in Standards Editor.)

2. Choose **File | Open**, navigate to EDISIM's **Samples** directory, and select **XML\_PO\_f.xml**.

3. In the Select Standard box, choose our XML guideline **XML\_PO\_f**.
4. When the validation completes, click on the blue errors at the top and look at the XML data in the bottom pane to see where the error occurred:  
USA is not valid. The application value list specified a value of US.  
PROD\_NUM appears twice and it is only allowed once.

## Validating data with Instream

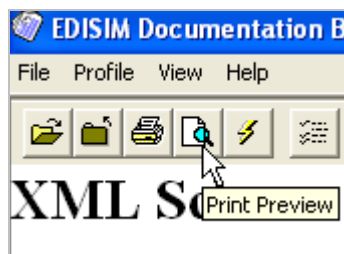
Guideline XML\_PO\_f is already installed in Instream's Database directory.

1. If you would like to use the guideline that you created, move the one that was installed in Instream's Database directory (renaming the STD file won't do) and copy yours there from EDISIM's **User Files\Public Guidelines**.
2. Go to Instream's **Scripts** directory and view the contents of the XML\_PO\_F script. Notice that the guideline parameter is **-xgXML\_PO\_F**. The **-xg** indicates an XML guideline.
3. Close the script and execute it.
4. Go to Instream's **Output** directory and view the contents of **XML\_PO\_f\_Results.txt**. Notice the error detailed in the **EDTL** record and the following **EMSG** record. These records are described in **TIB\_fsp-instream\_<n.n>\_usersguide.pdf** in Instream's Doc directory.

## Printing Guideline Documentation

To create formatted documentation:

1. Open EDISIM Document Builder.
2. Choose **File | Open Standard**, choose **XML\_PO\_f**, and click **OK**.
3. Click **Print Preview**:



4. Click in the document to see the various levels of magnification and use the scroll bar to see the entire page.
5. Use the **Next Page** button to see other pages.

6. Click **Close** to close Print Preview.
7. Close Document Builder.

See [Printing DTDs and schemas](#) on page 37.

# Using Standards Editor with Schemas and DTDs

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## Importing a Schema or DTD

To import:

1. Open Standards Editor.
2. To import a schema, choose **File | Import | Import XML Schema and open**.  
To import a DTD, choose **File | Import | Import XML DTD and open**.
3. Navigate to the schema or DTD file and then choose **Open**.

During the import, Standards Editor saves it as a STD file in EDISIM's **User Files\Public Guidelines** directory.

If the schema has import or include elements, the referenced schemas will be imported as part of the master schema that contains them – if they are available to EDISIM.

You can then edit it or:

- Use EDISIM Validator to validate XML data.
- Use HIPAA Validator Desktop or Instream to validate XML data.
- Use Docsplitter to split an XML file into good and bad XML data files.

# Opening a Schema or DTD

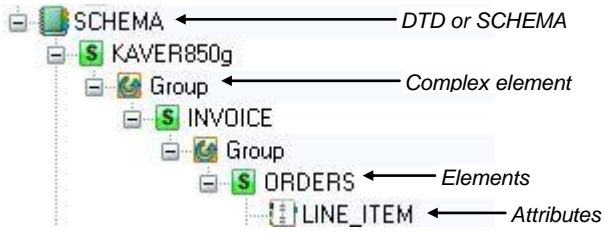
If you have already imported your schema or DTD into EDISIM, you can open it just as you do any other guideline:

1. Open Standards Editor.
2. Choose **File | Open** and choose the **User Guidelines** tab.
3. Select the guideline and click **Open**.



# Top Pane

The Standards Editor top pane for an XML guideline looks similar to the top pane for an EDI guideline in that it has a Dictionary Section and a local SCHEMA or DTD section (like a Set or Message).

Column	Contents
Key	<p>The nested list of objects in the SCHEMA or DTD:</p> 
Group	<p>Available on group elements to define the order and requirement of elements it contains. SCHEMA or DTD order indicators that define the order in which the child elements can occur:</p> <p><b>Group</b> – Use only in the dictionary when defining a complex type. Defines this as a group of elements.</p> <p><b>All</b> - Child elements can appear in any order; each child element can occur 0 or 1 time.</p> <p><b>Choice</b> – Only one of the child elements can occur.</p> <p><b>Seq</b> - Child elements must appear in the sequence in which they are listed.</p>
Type	<p>The element's type. If it is a built-in XML type, it is preceded with a colon. Examples:</p> <pre>:date :integer</pre> <p>If it is from one of the Types dictionaries, it does not have the colon.</p> <p>To change the type, click on it in the top pane, or use the bottom detail pane's <b>Type</b> field or <b>Change Type</b> button.</p>
Use	<i>This column is not used for XML guidelines</i>
Min	<p>The minOccurs occurrence indicator: the element must occur at least this many times at this location in the data</p> <p>0 means the element is optional and can be left out of the data altogether.</p> <p>Any other number means it must be used at least that many times.</p>
Max	<p>The maxOccurs occurrence indicator: the element cannot appear any more than this number of times at this location in the data.</p> <p>&gt;1 means unbounded</p>
Indicators	<p>These abbreviations are visual cues to characteristics such as level notes, business rules, code values, and other items that do not always appear on the screen. For a list, search for "indicators" in <b>TIB_fsp_edisim_&lt;n.n&gt;_fseditor.pdf</b>.</p>

# Bottom Pane

## Details View Pane

The Details View pane can be floating or docked. By default, the pane appears docked at the bottom of the Standards Editor window. Single click the top bar of the pane and drag the pane to a new position. Double click the top bar of the pane to toggle between its most recent floating and docked positions. Size and position are saved when you exit the guideline.

Not all fields appear for every object in the top pane.

Field	Contents
Description	For your use.
ID	For your use.
Reference	This element points to another item for its definition. To identify the item to which it points, click the <b>Change Type</b> button at the end of the Type field, choose <b>Reference</b> , and use the drop-down list.
Type	Same as Type column in top pane. You can type in the type, or use the Change Type button at the end of the line. See <a href="#">Types</a> on page 18.
Length	For data that must be a fixed length. An integer that specifies the exact number of digits or characters for the value.
Min Length	An integer that specifies the minimum length for the value.
Max Length	An integer greater than 0 that specifies the maximum length for the value.
Pattern	An optional regular expression to describe the sequence of characters that are acceptable in the value. Use this instead of the application value list regular expressions unless you need to use an application value list to enforce literal values or multiple patterns.
Abstract	This element is abstract, meaning it cannot be used in the data. Instead, should be replaced by a member of its substitution group. If this is a type, declaring it abstract requires the use of another type that is derived from it.
Nilable	The element must be present in the data but can be empty.
Substitution Group	The current element may be substituted for the element entered here.
Form	Optional. Determines whether this item has to be qualified with the namespace prefix. Default is the value of the elementFormDefault attribute of the schema element. Not available for elements directly under the schema element.
Block	Determines whether other elements can be substituted for this one.

Field	Contents
Final	Only used on elements that have the schema element as a parent. Sets the default value of the final attribute.
Minimum Occurrences	Same as Min column in top pane.
Maximum Occurrences	Same as Max column in top pane.
Default Value	For optional elements, this value will be assumed if the element appears in the data without a value. If the element is not in the data at all, then the default value is ignored.  Does not apply for required elements, since the XML must contain a value.  For attributes, this value applies even when the attribute is missing in the data.
Fixed Value	If the XML data includes this element or attribute, it must contain this value. If the XML omits this element or attribute, this value will be assumed.
Edit Notes	Add level notes to this item. These are for your own use and can optionally print in Doc Builder.
Edit Rules	Add business rules to this item. Please see <b>BusinessRules.pdf</b> .

## Code Values Pane

The Code Values pane is not used for XML. The XML equivalent, enumerations, should be put into an application values list and attached to the element.

## Cross Reference Pane

Cross-referencing is not available with XML data.

# Editing a Schema or DTD

After importing, you can edit it much like you would any EDI guideline.

## SCHEMA Section

The local SCHEMA or DTD section contains the global elements.

Each object has a Type field that identifies that object's base type, if it has one. The basic w3c schema types all start with a colon: `:string`, `:TOKEN`, etc. You can define others under Dictionary Objects.

In the top pane, open the root element SCHEMA to see the elements and columns that describe them.

Key	Group	Type	Use	Min	Max
Dictionary Objects					
SCHEMA					
KAVER850g				1	1
Group	Seq			1	1
PURCHAGTNAME		:string		0	1
PO_NUMBER		:string		0	1
PO_DATE		:string		0	1
BT_NAME		:string		0	1

## Values

Enumerations define a list of acceptable values. The Code Values tab is not used with XML data since the data does not necessarily conform to EDI limitations for codes.

Instead, use any of these with simple elements or attributes:

- Application value lists to enforce specific values
- The Pattern field in the bottom pane to enforce a pattern
- Business rules like CodeLookup|FindUserCode

### Application Value Lists

This is one way to enforce literal values and patterns (regular expressions). This operates exactly like application values when using EDI data. Please see Application Value Lists in [TIB\\_fsp\\_edisim\\_<n.n>\\_fseditor.pdf](#). They are best for values that do not change much.

## Pattern field

The bottom Detail pane contains a Pattern field where you can type in any regular expression to enforce a pattern. For example, to require that the value start with TC and be followed by digits, you would type this:

```
^TC[0-9]+
```

Please see Regular Expressions in **TIB\_fsp\_edisim\_<n.n>\_fseditor.pdf** for examples and details.

## Business rules to enforce values

Many extended business rules enforce values: List|ListCheck rules, CodeLookup|FindUserCode, etc.

### Example

This rule checks an external list of values in a separate file, and returns an error message if the current value is not in the list:

The screenshot shows a dialog box titled "What Rule to Run". At the top, there is a dropdown menu set to "FindUserCode" and a button with a function symbol (fx). To the right of the dropdown is a checkbox labeled "Look-Ahead Rule" which is currently unchecked. Below this is a "Text" button. The main part of the dialog is a table with two columns: "Parameter Name" and "Parameter Value".

Parameter Name	Parameter Value
CodeTable	STcountry
CodeValue	Current_Element
notFoundRule	DisplayErrorByNumber
> ErrorNumber	0
> Severity	0
> <b>MessageText</b>	"The ST_COUNTRY value is not an approved country abbrevia
foundRule	

The list called **Stcountry** would be in a file designated by the UserTable entry in EDISIM's or Instream's \$Dir.ini. Please see **BusinessRules.pdf** for details.

# Types

## *Creating a Type*

The Dictionary lets you create types in:

- The Simple Types Dictionary, which contains Simple Types and Global Attributes, and
- The Complex Types Dictionary, which contains Complex Types and Attribute Groups

You can create new types in the dictionary and then use them in the SCHEMA. For elements that are used more than once, this is a good alternative to simply adding them directly in the SCHEMA.

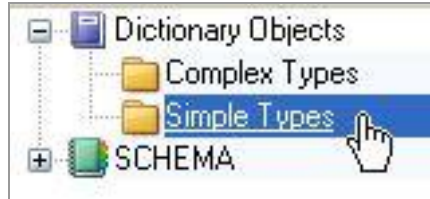
It also lets you edit the type in one place (the dictionary) and have it affect all places where it is used as a type in the SCHEMA.

### Example - Simple Type

---

Create a simple type PHONE\_NUM in the dictionary and then use it twice in the schema.

1. Open **Dictionary Objects** at the top and click **Simple Types**.



2. Select **Edit | Create new item ... | Schema Simple Type** and fill out the box like this:

Create Dictionary	
ID:	PHONE_NUM
Description:	9-character phone number, digits only
Purpose:	

Close the box.

3. Click in the Type column for PHONE\_NUM and select **:string** from the drop-down list.

The screenshot shows the 'Schema Object' configuration window for 'PHONE\_NUM'. The 'Type' section has 'Simple' selected. A dropdown menu is open, showing a list of built-in types: :string, :positiveInteger, :QName, :short, :string (highlighted), :time, :token, :unsignedByte, and :unsignedInt. The 'Children' section has 'Discard Children' selected.

Selected Item: Schema Object 'PHONE\_NUM'  
Type: :string (Simple Type)

Type

☐ None ☒ Simple

Children

☐ Keep Children ☒ Discard Children

Drop-down list:

- :string
- :positiveInteger
- :QName
- :short
- :string**
- :time
- :token
- :unsignedByte
- :unsignedInt

4. Click on another line in the top pane, and then click again on PHONE\_NUM to refresh the bottom pane.
5. Fill out the bottom pane like this:

The screenshot shows the 'Schema Object' configuration window for 'PHONE\_NUM'. The 'Description' field contains '9-character phone number, digits only'. The 'ID' field is empty. The 'Reference' checkbox is unchecked. The 'Type' field contains ':string'. The 'Length' field contains '9', 'Min Length' contains '9', and 'Max Length' contains '9'. The 'Pattern' field contains '^[0-9]+'.

Description: 9-character phone number, digits only

ID:

Reference: ☐

Type: :string

Length: 9 Min Length: 9 Max Length: 9

Pattern: ^[0-9]+

- Return to the SCHEMA and click BT\_ADDR1:
- Choose **Edit | Add item | Schema Element** and fill out the box like this.  
PHONE\_NUM will be at the bottom of the drop-down list after the built-in types.

**Adding Schema Element**

Name:

Type

☒ Simple ☐ Complex ☐ Reference

Where

☒ Before ☐ After ☐ Within

Selected Item:

There is no colon at the beginning of a type that you create.

Finish adding the element.

- Add ST\_PHONE\_NUM after BT\_PHONE\_NUM.

	ST_NAME	:string
	BT_PHONE_NUM	PHONE_NUM
	ST_PHONE_NUM	PHONE_NUM
	BT_ADDR1	ST_ADDR12

### Example - Complex Type

Create a complex type CONTACT in the dictionary and then use it in the schema.

- Under Dictionary Objects, click **Simple Types** and create this type in the Simple Types dictionary:  

NAME	Type	:string	Min	3	Max	20
------	------	---------	-----	---	-----	----
- Under Dictionary Objects, click **Complex Types**.
- Select **Edit | Create new item ... | Schema Complex Type** and fill out the box like this:

**Create Dictionary**

ID:  Description:

Purpose:

Close the box.



4. Save.
5. With CONTACT selected, choose **Edit | Add item ... | Schema Element** and add this simple element:

**Adding Schema Element**

Name:

Type

☒ Simple ☐ Complex ☐ Reference

Where

☐ Before ☐ After ☒ Within

Selected Item:

6. Highlight ContactName and add this after:

**Adding Schema Element**

Name:

Type

☒ Simple ☐ Complex ☐ Reference

Where

☐ Before ☒ After ☐ Within

Selected Item:

7. Save.

Now use this type in the SCHEMA:

1. Click **ST\_COUNTRY** in the SCHEMA and choose **Edit | Add item | Schema Element**.
2. Fill out the box like this:

**Adding Schema Element**

Name:

Type

☐ Simple ☒ Complex ☐ Reference

Where

☐ Before ☒ After ☐ Within

Selected Item:

3. Save.
4. Expand **CONTACT\_PERSON** in the SCHEMA to see this:

ST_ZIP	:string
ST_COUNTRY	:string
CONTACT_PERSON	CONTACT
ContactName	NAME
ContactPhone	PHONE_NUM

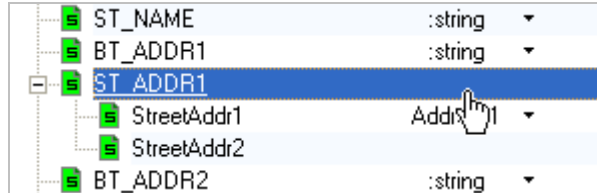
Notice the Italic *ContactName* and *ContactPhone*, indicating that these are being supplied from the Complex Types dictionary.

You can use this type as often as you'd like. It is the same as having a local complex group that contains NAME and PHONE, only you can maintain it centrally from the dictionary.

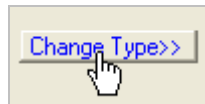
## Changing an Element's Type

You can change an element's type by:

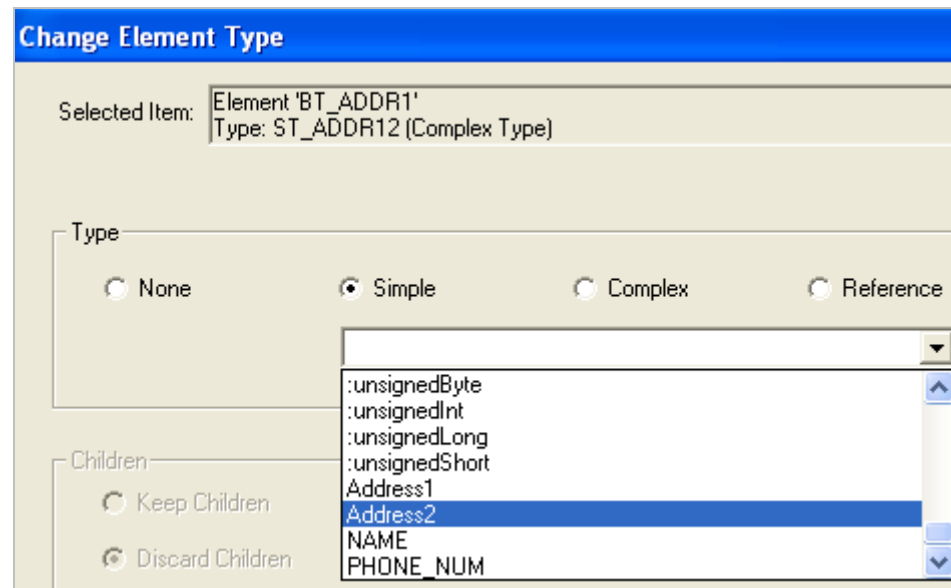
- Clicking (or double-clicking, depending on your Preferences) on its type in the top pane:



- Or, by clicking the **Change type** button at the end of the Type field in the Detail pane:



This displays the Change Element Type dialog box:



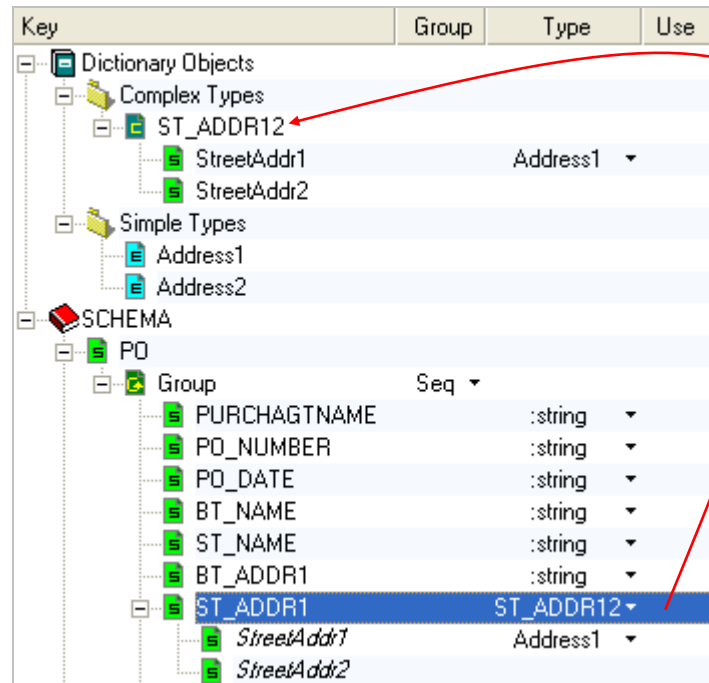
Where:

<b>Selected Item</b>	Name and type of the current element. Parentheses at the end of the type line contain one of these:	
	<b>Complex</b>	Selected type has child elements.
	<b>ComplexContent</b>	Selected type contains data and has child elements.
	<b>Simple Type</b>	Selected type contains data.
<b>Type</b>	Select a type:	
	<b>None</b>	Deletes the type from the element.
	<b>Simple</b>	Drop-down list offers all built-in simple types or those from your Simple Types dictionary.
	<b>Complex</b>	Drop-down list offers all complex types from your Complex Types dictionary.
	<b>Reference</b>	Drop-down list offers all types defined elsewhere in the document.
<b>Keep children</b>	Save the current child elements and add the one(s) from the selected type. Available if you have child elements that are local (see page <a href="#">25</a> ).	
<b>Discard children</b>	Delete the current child elements and add the one(s) from the selected type. Available if you have child elements that are local (see page <a href="#">25</a> ).	

## Localizing an Element

If an element uses a complex type from the dictionary, its children will display in *Italic* in the top pane. In this example, the ST\_ADDR1 complex element in the SCHEMA has a type of ST\_ADDR12 – which you can see in the Complex Types dictionary.

STR\_ADDR1 is simply pointing to the dictionary element for its subordinate structure.

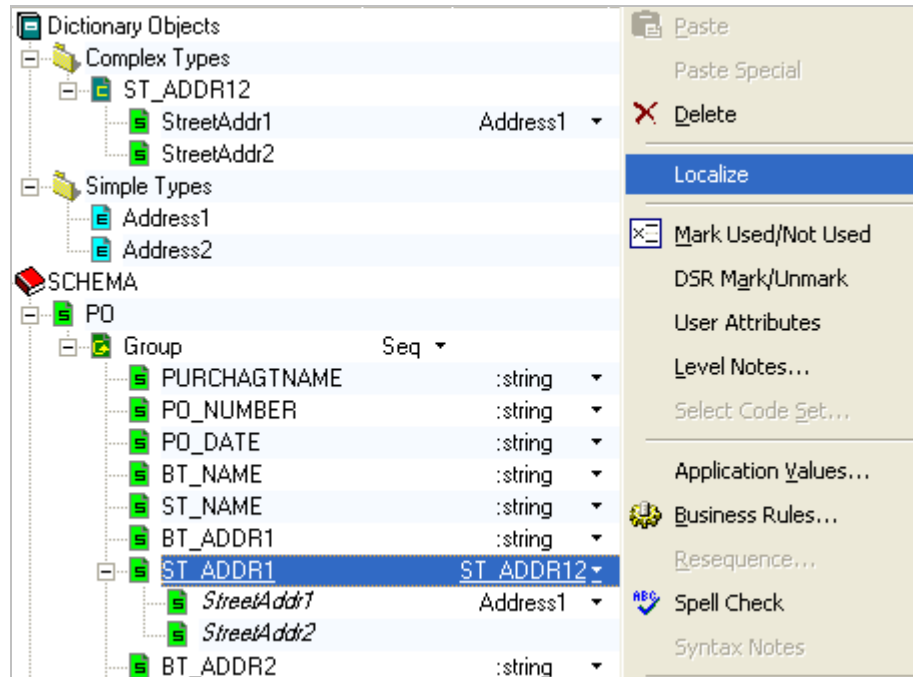


To remind you that it is referring to a dictionary type, Standards Editor displays the subordinates *StreetAddr1* and *StreetAddr2* in an *Italic* font.

You cannot change anything in ST\_ADDR1 in the schema. Changes must be made in the dictionary, and they then will be reflected in all schema places where that element type is used.

If you want to make changes that are local to just one place in the schema, you can “localize” the complex element:

1. Right-click on the complex element that is using the dictionary type.
2. Choose **Localize**.



The subordinates are no longer in *italic* and the type is in parentheses – indicating that it was based on the type shown, but is no longer attached to it.

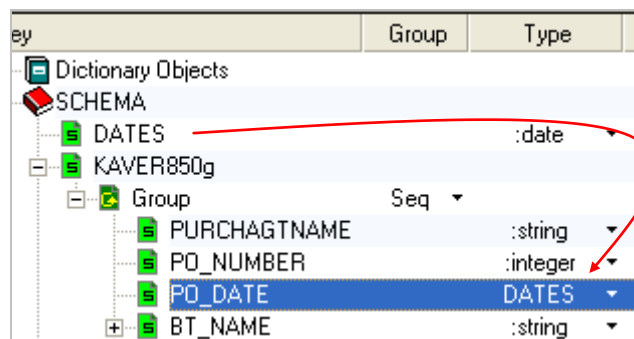


You can now edit the element in the SCHEMA. It will not affect any other location. If there are other dictionary types within this element, they remain attached to their complex types unless you localize them.

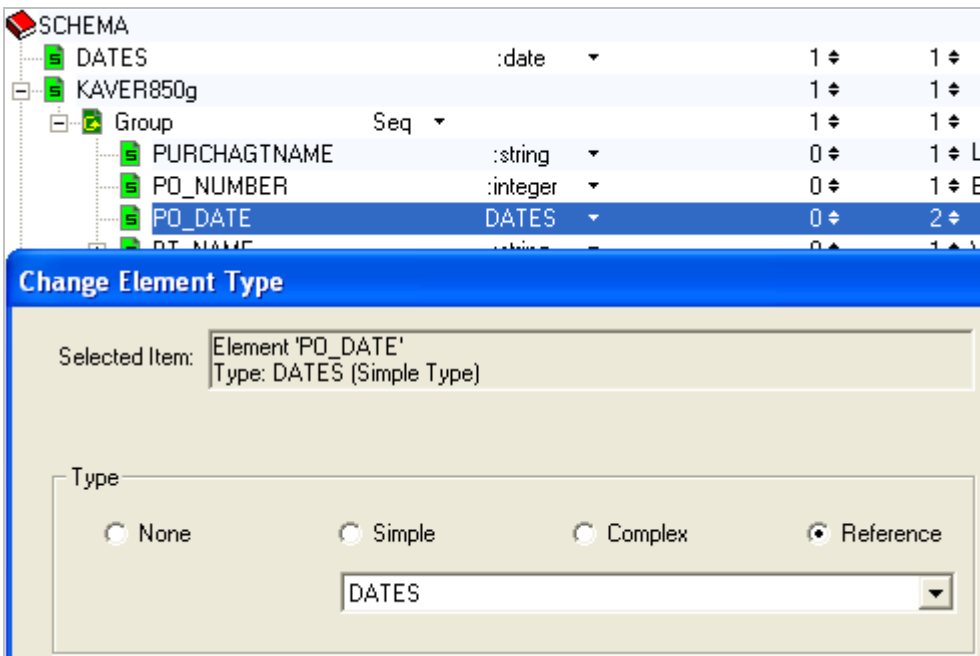
To re-attach a localized element to its dictionary element, right-click on it and choose **Localize**.

# Reference Example

In this example, PO\_DATE under KAVER850g has Reference selected in the detail pane so that it uses the definition of DATES under SCHEMA:



PO\_DATE's Type is set up like this:



## Business Rules

In the business rules dialog box, you can define variables with XML:

You can also use all of these buttons with XML:

With XML, you can use these features of the business rules dialog box:

You can use all parts of the Variable, Operator, and Constant area with XML



You can use any rule (such as AddVar or CompareDate) or any function under \* Call External Routine with XML



External routines you can use with XML	
Rule	Use with XML?
Reserved variables	
Current_Date	✓
Current_Delim	
Current_Element	✓
Current_ErrCount	✓
Current_LoopCount	
Current_LoopKey	
Current_Row and Next_Row	✓
Current_Time	✓
GLOBAL_FILENAME	
GLOBAL_FILEPATHNAME	
Using reserved variables in a message	✓
BusinessRules.CCI	
CCIInit	
CCICollect	



External routines you can use with XML	
Rule	Use with XML?
CCIAalyze	
BusinessRules.CodeLookup	
FindCode	✓
FindCodeWithDate	✓
FindUserCode	✓
FindUserCodeWithDate	✓
ValidateZipState	✓
BusinessRules.CustRec	
DefineCustomRec	✓
OutputCustomRec	✓
RemoveCustomRecord	✓
BusinessRules.DateTime	
CheckDateInRange	✓
CompareDate	✓
DateCalc	✓
GetGMTDateTime	✓
ValidateDateTimeUN and ValidateDateTimeX12	
BusinessRules.DBServer	
DBExecute	✓
DBQuery	✓
InvokeWebService	✓
BusinessRules.Exits	
ClearExits	
KeepOrder	
SetCompositePreExit	
SetElementPostExit	
SetLoopPostExit	
SetLoopPostInstanceExit	
SetSegmentPreExit	
UserExitWithoutWait	
UserExitWithWait	

External routines you can use with XML	
Rule	Use with XML?
BusinessRules.List	
ClearList	✓
InList	✓
ListCheck	✓
ListContig	✓
ListCount	✓
ListGetVar	✓
ListInsert	✓
ListMinMax	✓
BusinessRules.Looping	
ForEach	✓
Next	✓
ExitLoop	✓
BusinessRules.ODBC	
Setting up your ODBC Connection String	✓
DBOpen	✓
DBCclose	✓
DBQuery	✓
DBExecute	✓
BusinessRules.Run	
RunAlways	
RunNoData	
BusinessRules.Substitute	
DeleteSegment	
InsertSegment	
MakeKey	
Substitute	
SubstituteFind	
SubstituteReplace	

External routines you can use with XML	
Rule	Use with XML?
BusinessRules.Utilities	
AppendString	✓
BuildString	✓
ChangeCase	✓
ChangeElmAttribute	
CheckFormat	✓
CreateFSUID	✓
DisplayErrorByNumber	✓
FindString	✓
GetToken	✓
Identify	✓
IdentifierLookup	
InsertIdentifier	
Match	✓
MatchApplList	
Normalize	✓
Numbers	✓
OracleLookup and OracleLookupWithDate	✓
OutputCTX	
ReplaceChars	✓
ReplaceString	✓
SetCheckCTT and SetCheckCTTCount	
SetIdentifier	
SubString	✓
Trim	✓
TrimWhitespace	✓
BusinessRules.Variable	
SetLocalVariable	
SetVar	✓
AddVar	✓
Divide	✓

External routines you can use with XML	
Rule	Use with XML?
DumpVars	✓
Balance	✓
CompareNstring	✓
CompareNumeric	✓
CompareString and CompareStringNoCase	✓
Clear	✓
ClearLocalVariable	✓
FileTable Rules	✓
GetInfo	✓
GetLength	✓
GetValueFromSegment	
IsAlpha	✓
IsAlphaNum	✓
IsNum	✓
SaveCurrentSegment	
CheckCTT	
CheckDigit	
X12 234-235 CheckDigit	
EDIFACT 3039-3055 CheckDigit	
Other CheckDigit options	
User Defined check digit	
DateTime	✓
FSVBEexit.DisplayMessage	
ProductUtilities	


## Business Rules that Do Not Apply to XML

Additionally, these do not work with XML files:

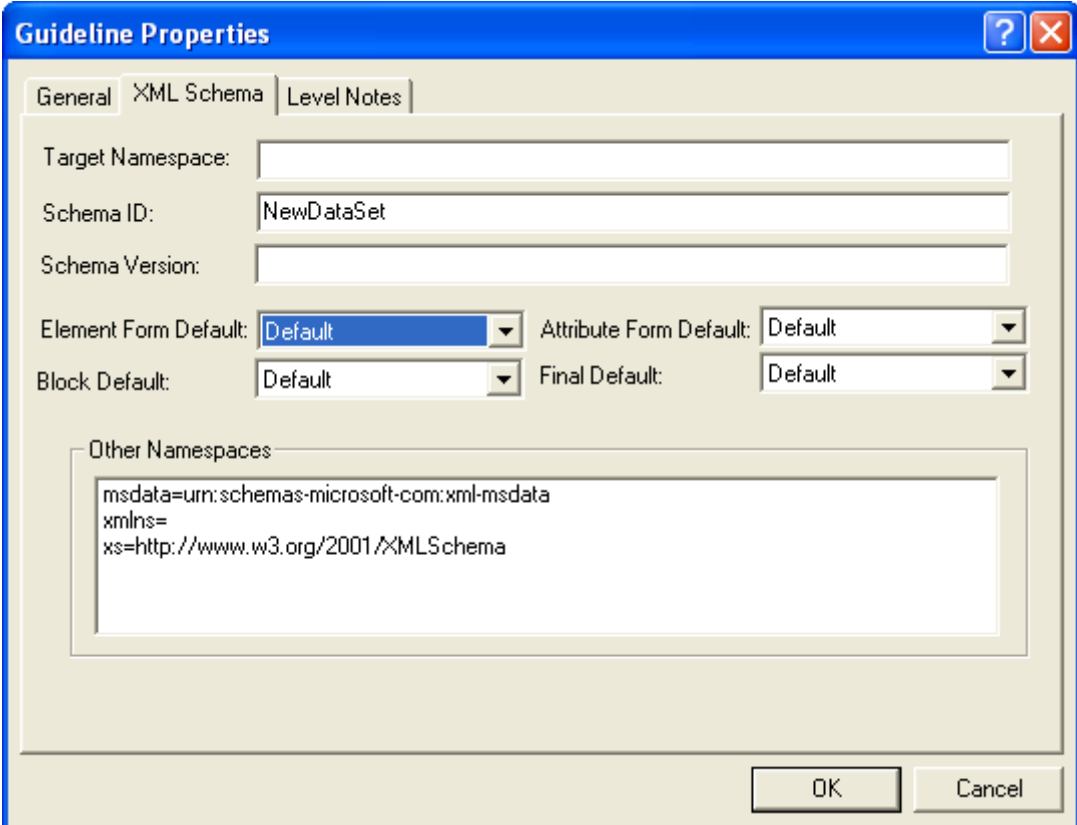
- \*Set Usage/Status
- \*Use Application Value List
- \*Use Code Set
- ICD Business Rules (HIPAA Only)
- Lookahead Business Rules

## Properties

To set the properties for an XML guideline, use one of these:

- Choose **File | Properties | XML Schema**
- Use the properties toolbar button: 
- Use the **Properties** button on the Save dialog box

The XML Schema tab looks like this:



The screenshot shows the 'Guideline Properties' dialog box with the 'XML Schema' tab selected. The dialog has three tabs: 'General', 'XML Schema', and 'Level Notes'. The 'XML Schema' tab contains the following fields and controls:

- Target Namespace:** An empty text box.
- Schema ID:** A text box containing 'NewDataSet'.
- Schema Version:** An empty text box.
- Element Form Default:** A dropdown menu set to 'Default'.
- Attribute Form Default:** A dropdown menu set to 'Default'.
- Block Default:** A dropdown menu set to 'Default'.
- Final Default:** A dropdown menu set to 'Default'.
- Other Namespaces:** A text area containing the following text:

```
msdata=urn:schemas-microsoft-com:xml-msdata
xmlns=
xs=http://www.w3.org/2001/XMLSchema
```

At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

Field	Contents
Target Namespace	Namespace for this schema. For your own use. TIBCO Foresight products do not use this field.
Schema ID	ID for this schema. For your own use. TIBCO Foresight products do not use this field.
Schema Version	Version for your own use. TIBCO Foresight products do not use this field.
Element Form Default	Determines the default Form setting for elements in your schema: must they be qualified by the target namespace? If set to Default in the Properties dialog box, then the default setting for XML will be used.
Attribute Form Default	Determines the default Form setting for attributes in your schema: must they be qualified by the target namespace? If set to Default here, then the default setting for XML will be used.
Block Default	Determines the default Block setting for your schema: elements with what derivations should be blocked from replacing this element? If set to Default here, then the default setting for XML will be used.
Final Default	Determines the default Final setting for your schema: how can this element be derived? If set to Default here, then the default setting for XML will be used.
Other Namespaces	Other namespaces used to qualify elements in this schema

## Exporting a schema or DTD

To export the current schema to an **.xsd** file:

1. Save changes
2. Choose **File | Export | Export Current Guideline | To Schema** or **To DTD**
3. Choose the filename and location.

# SEF

EDISIM stores guidelines in a public domain format called SEF in two ways:

- You can export an XML guideline in SEF format by using **Export | Export Current Guideline | To SEF**.
- When you import a schema or DTD into EDISIM, it is stored as a file with extension STD in EDISIM's **User Files\Public Guidelines** directory. This file is also in SEF format.

The SEF format that captures schema information has expanded from its earlier formats. If you use EDISIM's SEF files in other applications, please contact TIBCO Foresight technical support.





# Printing DTDs and schemas

## Printing formatted guideline documentation

EDISIM Document Builder will print formatted guideline documentation for XML schemas and DTDs that have been imported into Standards Editor.

Because of the nature of XML, the Doc Builder output has been adjusted and does not match Doc Builder EDI output exactly.

Doc Builder  
example  
page 1

### XML Schema Layout for XML\_PO\_F

Page No.	Name	Type	Usage
2	PO	Sequential	>>
2	PURCHAGTNAME	:string	
2	PO_NUMBER	:string	
2	PO_DATE	:string	
2	BT_NAME	:string	
2	ST_NAME	:string	

Same  
guideline in  
Standards  
Editor

SCHEMA					
PO				1	1
Group	Seq			1	1
PURCHAGTNAME	:string			0	1
PO_NUMBER	:string			0	2 L1
PO_DATE	:string			0	1
BT_NAME	:string			0	1 BV
ST_NAME	:string			0	1 BV, BZ

Element:	<b>PO</b>		
Occurrences:	1		
Attribute and Sub-Element Summary			
<u>Name</u>	<u>Description</u>	<u>Type</u>	<u>Usage</u>
<u>Child Elements and Groups</u>			
PURCHAGTNAME		:string	Optional
Purchase Order name			
Occurrences: None to 1, XML ID: PO_KC			
PO_NUMBER		:string	Optional
Occurrences: None to 2, Length: / 9, Pattern: PO[1-9]+			
This value must start with PO followed by up to 7 digits			

Same  
guideline in  
Standards  
Editor

Key	Group	Type	Min	Max	Indicators
PO			1	1	
Group	Seq		1	1	
PURCHAGTNAME		:string	0	1	
PO_NUMBER		:string	0	2	L1
PO_DATE					
BT_NAME					

<b>PO_NUMBER Element</b>	
Pattern:	PO[1-9]+
Abstract:	<input type="checkbox"/>
Nillable:	<input type="checkbox"/>
Substitution Group:	
Form:	Default
Block:	D
Minimum Occurrences:	0

<b>Level Notes</b>	
Element PO_NUMBER, SCHEMA	
Level Notes:	Level 1 note
This value must start with PO followed by up to 7 digits	

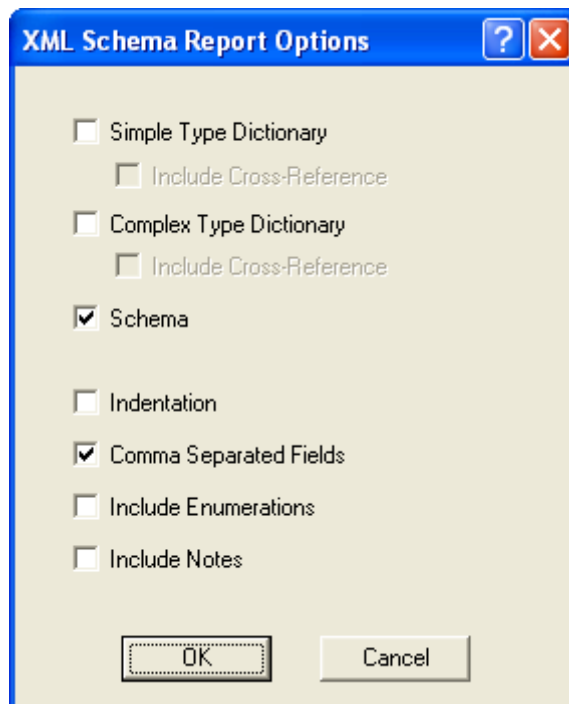
Many Doc Builder profile settings apply to XML guidelines.

Profile Tab	Setting
Formatting	All work with XML
Fonts	All work with XML
Usage Indicators	<i>Most do not apply to XML</i> Element indicator for Must Use affects the “segment table”
Shading	Shading works for Level Notes
Transaction Items	<i>Does not apply to XML</i>
Segment Items	<i>Does not apply to XML</i>
Element Items	<i>Does not apply to XML</i>
Segment Usage Notes	<i>Does not apply to XML</i>
Element Usage Notes	<i>Does not apply to XML</i>
Global Items	Level Notes

## Printing a text report

You can print your current XML guideline in tabular or CSV format right from Standards Editor.

1. Open the schema.
2. Choose **File | Print**.
3. Choose the options that you want:
  - **Indentation** prints an indented tabular report.
  - **Comma Separated Fields** creates a CSV file suitable for importing into a spreadsheet or other application. If this is not selected, you will get a tabular text report.
  - The other selections determine the content of the output.



4. After clicking **OK**, you can use the **Save As...** and **Print** buttons at the bottom right.

# Using EDISIM Validator with XML

---

## Before you validate XML

For XML validation, you must first import the corresponding schema into EDISIM so that it will be put into the EDISIM database in the form of a STD file and become available during validation.

## TIBCO Foresight programs that validate XML

These TIBCO Foresight products validate XML:

**EDISIM Validator** This program is the most convenient way to validate XML since it is installed as part of EDISIM 6.0 and later. It will validate your XML data without copying files anywhere.

### **HIPAA Validator Desktop**

Copy the XML guideline's **STD** file from EDISIM's **User Files\Public Guidelines** directory to HIPAA Validator Desktop's **Database** directory. You can then HIPAA Validator Desktop and validate XML against that guideline.




### **Instream**

Copy the XML guideline's **STD** file from EDISIM's **User Files\Public Guidelines** directory to Instream's **Database** directory. You can then use Instream to validate XML against that guideline.

The rest of this section describes how to validate with EDISIM Validator.

# Opening EDISIM Validator

To open EDISIM Validator, use one of these methods:

- From Standards Editor, click the toolbar icon for EDISIM Validator:  
 or  or  (depending on EDISIM version).
- From the Start menu, select **Programs | FORESIGHT | EDISIM | Validator**.
- From Windows Explorer, go to EDISIM's **Bin** directory and double-click on **Validtr.exe**.

## Validating XML data

You can validate XML with:

- EDISIM validator (data correction not available for XML)
- HIPAA Validator Desktop (data correction not available for XML)
- Instream (and optionally use trading partner automation - see **TIB\_fsp-instream\_<n.n>-tpa.pdf**.)

## Validating with EDISIM Validator

1. Open EDISIM Validator.
2. Open an XML file:
  - a. Choose **File | Open**.
  - b. Navigate to the file. You can see some XML files in EDISIM's Samples directory.

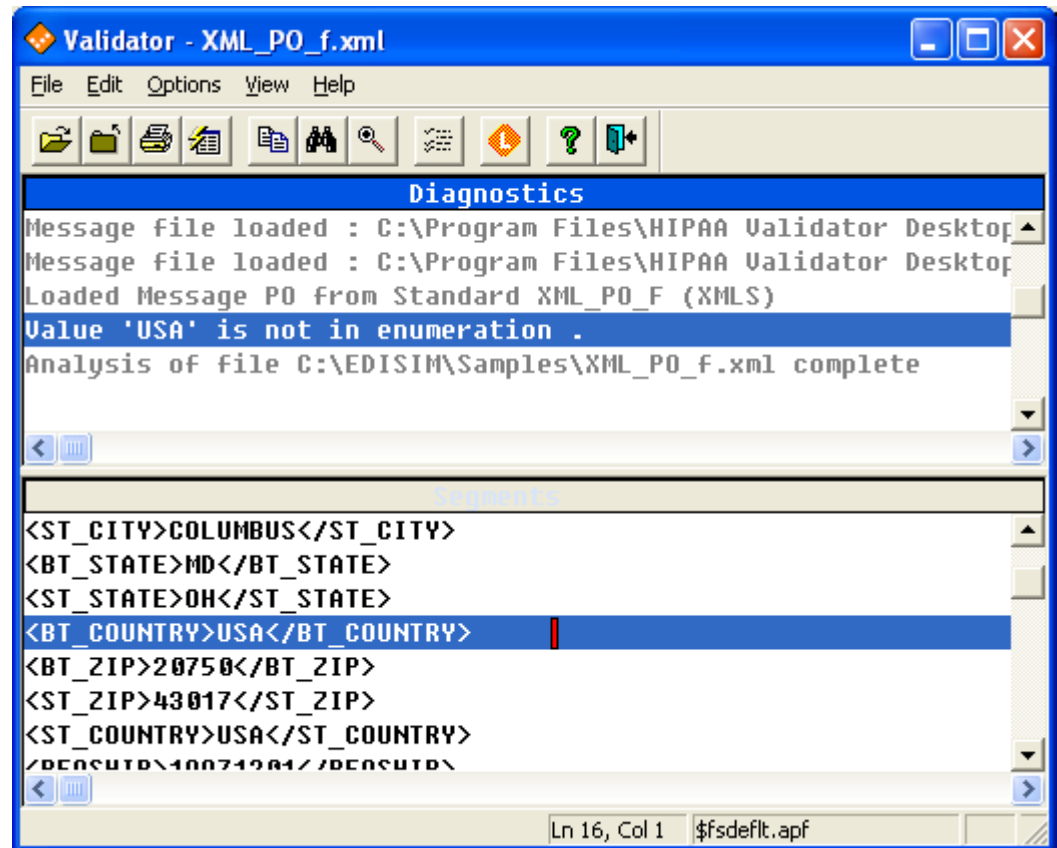
As an XML example, you can choose **XML\_PO\_f.xml**.

3. Choose the XML guideline that defines how the data should look.  
If you are validating XML\_PO\_f, choose **XML\_PO\_F**.
4. Click **OK**.
5. Click **OK** when the analysis is complete.

You can also use trading partner automation to select guideline and profile for XML validations. See **TIB\_fsp-instream\_<n.n>-tpa.pdf**.

## Viewing the results

The top pane contains diagnostic messages and the bottom pane contains the EDI segments or XML elements.



1. Click on the first line in the top pane.  
The corresponding line in the data is highlighted in the bottom pane.
2. Use your cursor keys to move down line by line in the top pane, noticing what happens in the bottom pane.
3. When you click on a blue line (an error), the bottom pane highlights the location of the error.
4. Continue scrolling down and looking at each message.

## Creating an HTML report of XML validation results

You can create an HTML report from your XML validation. Please see [ValidationHighlighter.pdf](#).





# Splitting XML data

## Overview

*XML splitting is available on Windows platforms only.*

Docsplitter on Windows can split XML at any complex element that repeats.

Example: you can split at ORDERS or TOTALLINES, which are complex elements and have Max of greater than 1.

Key	Group	Type	Use	M.	Max
S SCHEMA				1	1
S PO				1	1
Group	Seq			1	1
S PURCHAGTNAME		:string		0	1
S PO_NUMBER		:string		0	1
S PO_DATE		:string		0	1
S BT_NAME		:string		0	1
S ST_NAME		:string		0	1
S BT_ADDR1		:string		0	1
S ST_ADDR1		:string		0	1
S BT_ADDR2		:string		0	1
S ST_ADDR2		:string		0	1
S BT_CITY		:string		0	1
S ST_CITY		:string		0	1
S BT_STATE		:string		0	1
S ST_STATE		:string		0	1
S BT_COUNTRY		:string		0	1
S BT_ZIP		:string		0	1
S ST_ZIP		:string		0	1
S ST_COUNTRY		:string		0	1
S REQSHIP		:string		0	1
S ORDERS				0	>1
Group	Seq			1	1
S LINE_ITEM		:string		1	1
S PROD_QTY		:string		1	1
S PROD_QTY2		:string		0	1
S PROD_UNITS		:string		1	1
S UNIT_PRICE		:string		1	1
S PROD_NUM		:string		1	1
S PROD_DESC		:string		0	1
S TOTALLINES				0	>1
Group	Seq			1	1
S TOTAL		:string		0	1
S TOTALAMOUNT		:string		0	1
NewDataSet				1	1

# XML splitting demo

V\_DS\_XML\_split\_PO in Instream's Scripts directory.

## INI file for splitting XML data

XML splitting is controlled by the Docsplitter INI file.

### [Split Point] section

---

Include a [Split Point] section that controls where the split will occur.

It looks like this:

```
[Split Point]
Xml=PO | PO/ORDERS
```

The format is:

```
[Split Point]
Xml=rootelem | PathToSplit
```

Where:

<b>[Split Point]</b>	Literal text
<b>Xml=</b>	Literal text
<i>rootelem</i>   <i>PathToSplit</i>	The root element followed by a vertical bar and then the path from the root element to the split point, with each element separated by a slash:

## Example 1

The root element is PO and the split point is at the ORDERS complex element:

Key	Group	Type	
SCHEMA			
PO			
Group	Seq		
PURCHAGTNAME		:string	
PO_NUMBER		:string	
PO_DATE		:string	
BT_NAME		:string	
ST_NAME		:string	
BT_ADDR1		:string	
ST_ADDR1		:string	
BT_ADDR2		:string	
ST_ADDR2		:string	
BT_CITY		:string	
ST_CITY		:string	
BT_STATE		:string	
ST_STATE		:string	
BT_COUNTRY		:string	
BT_ZIP		:string	
ST_ZIP		:string	
ST_COUNTRY		:string	
REQSHIP		:string	
ORDERS			
Group	Seq		
LINE_ITEM		:string	
PROD_QTY		:string	
PROD_QTY2		:string	
PROD_UNITS		:string	
UNIT_PRICE		:string	
PROD_NUM		:string	
PROD_DESC		:string	

The INI file will contain this:

```
[Split Point]
Xml=PO|PO/ORDERS
```

This INI file will cause the XML data to split at the bold lines if an error is encountered within an ORDERS element:

```
<?xml version="1.0" standalone="yes"?>
<PO>
  <PURCHAGTNAME>ARTHUR JONES</PURCHAGTNAME>
  <PO_NUMBER>76766541</PO_NUMBER>
  <PO_DATE>19970905</PO_DATE>
  <REQSHIP>19971201</REQSHIP>
  <ORDERS>
    <LINE_ITEM>1</LINE_ITEM>
    <PROD_QTY>1000</PROD_QTY>
    <PROD_UNITS>EA</PROD_UNITS>
    <UNIT_PRICE>0.04</UNIT_PRICE>
    <PROD_NUM>2837645985</PROD_NUM>
    <PROD_DESC>BOOT EYELETS</PROD_DESC>
  </ORDERS>
</PO>
```

```

<ORDERS>
  <LINE_ITEM>2</LINE_ITEM>
  <PROD_QTY>40</PROD_QTY>
  <PROD_UNITS>CA</PROD_UNITS>
  <UNIT_PRICE>54.00</UNIT_PRICE>
  <PROD_NUM>SAL3337465</PROD_NUM>
  <PROD_DESC>SOLE RESIN</PROD_DESC>
</ORDERS>

```

## Example 2

The path is complex element LINEITEM within ORDERS:

ORDERS		0	>1
Group	Seq	1	1
LINE_ITEM	:string	1	1
PROD_QTY	:string	1	1
PROD_QTY2	:string	0	1
PROD_UNITS	:string	1	1
UNIT_PRICE	:string	1	1
PROD_NUM	:string	1	1
PROD_DESC	:string	0	1

The INI file will contain this:

```

[Split Point]
Xml=PO|PO/ORDERS/LINEITEM

```

[Summary Point] section

You can include an optional [Summary Point] section to display a count of the number of split points in the file.

The format is:

[Summary Point]  
Xml="element"

Where:

[Summary Point]      Literal text.  
Xml=                    Literal text.  
"<element>"          An element to hold the count.

Example 1

This INI file says the split point is the ORDERS element and the TOTAL element should contain a count of the ORDERS elements in the file. The TOTAL element here is reporting 10 ORDERS in the file:

INI file	Data
<pre>[Split Point] Xml=PO PO/ORDERS  [Summary Point] XML="&lt;TOTAL&gt;"</pre>	<pre>. . . &lt;PROD_NUM&gt;4335625486&lt;/PROD_NUM&gt; &lt;PROD_DESC&gt;PLASTIC STAKES&lt;/PROD_DESC&gt; &lt;/ORDERS&gt; &lt;ORDERS&gt;   &lt;LINE_ITEM&gt;10&lt;/LINE_ITEM&gt;   &lt;PROD_QTY&gt;5000&lt;/PROD_QTY&gt;   &lt;PROD_UNITS&gt;EACH&lt;/PROD_UNITS&gt;   &lt;UNIT_PRICE&gt;0.29&lt;/UNIT_PRICE&gt;   &lt;PROD_NUM&gt;5548876542&lt;/PROD_NUM&gt;   &lt;PROD_DESC&gt;KAVER INSIGNIA PATCHES&lt;/PROD_DESC&gt; &lt;/ORDERS&gt; - &lt;TOTAL&gt;10&lt;/TOTAL&gt;   &lt;TOTALAMOUNT&gt;186&lt;/TOTALAMOUNT&gt; &lt;/TOTALINES&gt; &lt;/PO&gt;</pre>

# Guideline and APF changes for splitting XML data

No changes are needed to the XML guideline or the validation profile (APF).

## Docsplitter command line for splitting XML data

The command line is similar to the Docsplitter command line for splitting EDI data, with these considerations:

- i      The **i** parameter is required and must point to a validation detail results file that was created by validating with an XML guideline.
- s      The **s** parameter is required and must point to a Docsplitter INI file that contains, as a minimum, a [Split Point] section with an Xml line. See [INI file for splitting XML](#) on page 46.

For an example, please see V\_DS\_XML\_split\_PO in Instream's Scripts directory.

For details about the Docsplitter command line, see **TIB\_fsp-instream\_<n.n>-docsplitter.pdf**.