XSLT Mapping in SAP PI 7.1



Applies to:

SAP NetWeaver Process Integration 7.1 (SAP PI 7.1)

Summary

This document explains about using XSLT mapping in SAP Process Integration for converting a simple input to a relatively complex output. It explains the complete process of preparing a .xsl file and then importing it to PI.

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Author Bio



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A Basic Overview on XSLT

XSLT stands for EXtensible Stylesheet Language Transformation. When it is not possible to use message mapping, usually when we need to create a complex structure from a flat message or where aggregation of nodes etc is required, we prefer using XSLT mapping. XSLT describes how an XML structure is transformed into another XML structure. It is very simple to use an XSLT mapping in PI. The XSLT is developed and then imported as a zip file into ESR. The structured description of a simple XSL style sheet is as shown below:

Example

Let's take a simple example which will give a complete idea about XSLT:

1.) Let the Source be as shown below:

```
<?xml version="1.0" encoding="UTF-8"?>
<ns0:MT_XSLT_Source xmlns:ns0="http://XYZ.com/gen">
<Person>
<FirstName>Anshul</FirstName>
<LastName>Chowdhary</LastName>
<Gender>Male</Gender>
<Address>
<Street>2nd Main</Street>
<Houseno>83/b</Houseno>
<City>Mysore</City>
</Address>
</Person>
</ns0:MT_XSLT_Source>
```

2.) Let the desired target be as shown below:

```
<?xml version="1.0" encoding="UTF-8"?>
<ns1:MT_XSLT_Target xmlns:ns1="http://XYZ.com/Test">
<Title>Male</Title>
<Name>Anshul Chowdhary</Name>
<Street>83/b 2nd Main</Street>
<City>Mysore</City>
</ns1:MT_XSLT_Target>
```

Now as we have the source and the target with us we can develop an XSLT mapping between them using any of the XML editors or even a note pad.

The XSL style sheet of the above transformation is as given below:

```
<?xml version='1.0' encoding="UTF-8"?>
<xsl:stylesheet version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:ns0="http://XYZ.com/Gen"
Xmlns:ns1="http://XYZ.com/Test">
    <xsl:template match="/">
        <ns1:MT_XSLT_Target>
            <Title>
                <xsl:value-of
select="ns0:MT_XSLT_Source/Person/Gender"/>
            </Title>
            <Name>
                <xsl:value-of
select="concat(concat(ns0:MT_XSLT_Source/Person/FirstName,' '),
ns0:MT_XSLT_Source/Person/LastName)"/>
            </Name>
            <Street>
                <xsl:value-of
select="concat(concat(ns0:Mt_XSLT_Source/Person/Address/Houseno")
, ' '),
                                         ns0:Mt XSLT Source/Pers
on/Address/Street)"/>
            </Street>
            <City>
                <xsl:value-of
select="ns0:Mt_XSLT_Source/Person/Address/City"/>
            </City>
        </ns1:MT_XSLT_Target>
  </xsl:template>
</xsl:stylesheet>
```

Basic XSLT Tags

Now let's explain the above XSLT elaborately. Since an XSL style sheet is an XML document itself, it always begins with the XML declaration: <?xml version="1.0" encoding="UTF-8"?>. The next element, <xsl:stylesheet>, defines that this document is an XSLT style sheet document (along with the version number and XSLT namespace attributes). The <xsl:template> element defines a template. The match="/" attribute associates it with the root of the XML source document. The content inside <xsl:template> element defines some HTML content to be written as an output. The last two lines define the end of the template and of the style sheet respectively. Let's understand each tag used in an XSLT elaborately:

1) <xsl:stylesheet> or <xsl:transform> :

<xsl:stylesheet> or <xsl:transform> are the root elements that declare the document to be an XSL style sheet. Either of the two elements can be used as root elements as they are synonymous.

EG: <xsl:stylesheet version="1.0" xmlns:xsl=http://www.w3.org/1999/XSL/Transform>

The xmlns:xsl="http://www.w3.org/1999/XSL/Transform" points to the official W3C XSLT namespace. If you use this namespace, you must also include the attribute version="1.0".

2) <xsl:template> :

An XSL style sheet contains one or more set of rules that are called templates. A template contains rules to apply when a specified node is matched. The "match" attribute is used to associate a template with an XML element or it can also be used to define a template for the entire XML document. The value of the match attribute is an XPath expression (i.e. match="/" defines the whole document).

3) <xsl:value-of> :

The <xsl:value-of> element is used to extract the value of a selected node. The value of the select attribute is an XPath expression. An XPath is used for defining parts of an XML document. An XPath expression works like navigating a file system where a forward slash (/) selects subdirectories.

4) <xsl:for-each> :

The <xsl:for-each> element is used to loop in XSLT. The value of the select attribute is an XPath expression.

For example in our above example if we had multiple person data at the source then we could have used <xsl:for-each element> as shown below:

We can also filter the output from the XML file by adding a criterion to the select attribute of <xsl:for-each> element.

EG: <xsl:for-each select="ns0:MT_XSLT_Source/Person[FirstName='Anshul']">

Valid filter operators are:

= (equal)

!= (not equal)

< (less than)

> (greater than)

5)<xsl:sort> :

The <xsl:sort> element is used to sort the output.

Example:



The select attribute indicates what XML element to sort on. In the above example it will display the output based upon sorting the "Names".

6) <xsl:if> :

The <xsl:if> element is used to put a conditional test against the content of the XML file. The value of the required test attribute contains the expression to be evaluated.

Syntax: < xsl: if test="expression">

</xsl:if>

Example:

```
<?xml version='1.0' encoding="UTF-8"?>
<xsl:stylesheet version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
                               xmlns:ns0="http://XYZ.com/Gen"
Xmlns:ns1="http://XYZ.com/Test">
    <xsl:template match="/">
        <ns1:MT_XSLT_Target>
            <xsl:for-each select="ns0:MT_XSLT_Source/Person">
            <xsl:if test="Gender =Male">
                  <Title>
                      <xsl:value-of select="Gender"/>
                  </Title>
                  <Name>
                      <xsl:value-of
      select="concat(concat(FirstName,' '),
                                                     LastName)"/>
                  </Name>
                  <Street>
                      <xsl:value-of
```

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The above code will only output those person details which have "male" as gender .

7) <xsl:choose> :

The <xsl:choose> element is used to handle condition based tests. Multiple conditions are expressed with the help of <xsl:when> and <xsl:otherwise> elements.

Syntax/EG:

```
<xsl:choose>
  <xsl:when test=" Gender =Male ">
    ... some processing logic inside ...
  </xsl:when>
  <xsl:otherwise>
    ... some processing logic inside....
  </xsl:otherwise>
</xsl:otherwise>
```

Choose condition will come just above the element in the XSL where the condition needs to be implied.

8) <xsl:apply-templates> :

The <xsl:apply-templates> element applies a template to the current element or to the current element's child nodes. If we add a select attribute to the <xsl:apply-templates> element it will process only the child element that matches the value of the attribute. We can use the select attribute to specify the order in which the child nodes are processed.

XPATH Functions in XSLT Mapping:

This explains the use of various XPATH functions with their syntaxes:

1) substring()

This Function is used to extract some specified portion from the original string. It extracts the specified number of characters from a string.

Syntax: substring("ANSHUL CHOWDHARY",1,6)

Output: "ANSHUL"

2) translate()

The translate function takes the input string in the value argument of the syntax as shown below and substitutes all occurrences of a string specified in the string1 argument with that mentioned in string2 argument.

Syntax: translate("Anshul chowdhary", "abcdefghijklmnopqrstuvwxyz","

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ")
```

Output:"ANSHUL CHOWDHARY"

3) string()

The string function converts the input to a string.

Syntax: string("Anshul chowdhary")

4) concat()

The concat function takes all input arguments individually and concatenates them together in the specified order.

Syntax: concat("anshul","chowdhary")

Output:"anshulchowdhary"

5) sum()

The sum function converts PCDATA text to a numeric value

Syntax: sum(p2:marks/score)

6) count()

This function is used to count the nodes

Syntax: count(p2:marks/subjects) .

The use of the above XPATH Functions is explained in an example below, but before going into that we should know how to use XSLT Mapping in PI.

How to Use an XSLT Mapping in PI

Basic Steps- There are some basics steps required for using XSLT mapping in PI. Those steps are -

STEP 1: Create the source and target data type.

STEP 2: Create the Source and the Target Message types.

STEP 3: Create Inbound and Outbound Service interfaces.

STEP 4: XSLT Mapping does not require creation of Message mapping as the .XSL file is directly imported to the Operations Mapping.

STEP 5: Create a .XSL file which contains the logic for converting source data type to target data type.

STEP 6: Zip the developed .xsl file and import it into Enterprise Services Builder under Imported Archives.

STEP 7: In Operation Mapping choose mapping program as XSL and specify this zip program. (When one chooses the Type as XSL, in search help all XSL Mapping programs that are imported under Imported Archives of the particular namespace gets listed for selection)

STEP 8: Test the mapping program imported by moving to the Test tab.

Based upon the above mentioned steps, a few scenarios have been configured in PI as shown below. While explaining the examples it has been assumed that the user has basic knowledge of interface creation in PI 7.1.

Example 1

Creating flat structure from a complex message.

The source structure is as shown in the outbound datatype below.

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击 Display Data Type				Status	Active	Display	Language E
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Namespace	http://	0C2					
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Name	Category	Туре	Occurrence	Default	Details	Business C	Description
 DT_XSLT_Outbound 	Complex Type						
Person	Element		1unbounded				
FirstName	Element	xsd:string	1				
LastName	Element	xsd:string	1				
Gender	Element	xsd:string	1				
 Address 	Element		1				
Street	Element	xsd:string	1				
Houseno	Element	xsd:string	1				
City	Element	xsd:string	1				

The inbound datatype is as mentioned below. This is the desired target structure.

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	 DT_XSLT_Inbound 	Complex Type					
	 Details 	Element		1unbounded			
	Title	Element	xs d:string	1			
	Name	Element	xsd:string	1			
	Street	Element	we diretring	4			

For the above two data types, prepare the message types, service interfaces etc. Message Mapping will not exist for interfaces which use XSLT mapping. The XSLT mapping is required to be specified in Operation Mapping. To achieve this, .XSL file is transported to Imported archives in the form of a ZIP file as shown below.

In the ESR go to the desired namespace and right click on Imported Archive. Select New as shown below.

The below screen pops up when the name of the xsl file is entered after clicking on New. The file is imported by clicking in the Import Archive button as shown below.

A IA_EmployeedDetails: Edit Imported Archive						
Imported Archive Navigation	Edit View Tools 🎾 🛄 🖿 🛙 🗢 🚓 🏴 🛛 🖨 🛄 😫					
🞧 Edit Imported Archive		Status	In Process			
Name	IA_EmployeedDetails					
Namespace	http://www.www.www.inc.information					
Software Component Version	SWC_POC_					
Description						
File Archive Program						
Name		Path				

When Import Archive button is pressed, a browser window open up from where the desired xsl mapping is chosen.

🖪 Open				×
Look <u>i</u> n: 📄 t	New Folder (4)	۵	🛱 🔂 🗖	D:D: D:D: D:D: D
🖹 EmployeeD	etails.zip			
File <u>N</u> ame:	EmployeeDetails.zip			
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			Open	Cancel

Once the mapping is selected, it comes in ESR as shown below.

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Imported Archive Navigation	Edit View Tools 🔛 🛛 🖬 🖉 🔷 🔂 🕬 🖓	
🔂 Edit Imported Archive		Status
Name	IA_EmployeedDetails	
Namespace	http://	
Software Component Version	SWC_POC_Windowskie	
Description		
File EmployeeDetails.zip		
Name		Path
EmployeeDetails.xsl		

The xsl mapping is as given below.

xml version="1.0" encoding="UTF-8" ?
<pre><xsl:stylesheet version="1.0" xmlns:ns0=" http://XYZ.com/gen1" xmlns:ns1=" http://XYZ.com/gen 2" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"></xsl:stylesheet></pre>
<xsl:template match="/"></xsl:template>
<ns1:mt_xslt_inbound></ns1:mt_xslt_inbound>
<xsl:for-each select="ns0:MT_XSLT_Outbound/Person"></xsl:for-each>
<details></details>
<gender></gender>
<xsl:value-of select="Gender"></xsl:value-of>
<name></name>
<pre><xsl:value-of select="concat(concat(FirstName,' '),LastName)"></xsl:value-of></pre>
<street></street>
<xsl:value-of select="Address/Street"></xsl:value-of>
<houseaddress></houseaddress>
<xsl:value-of select="concat(concat(Address/Houseno,','),Address/City)" /></xsl:value-of

In Operation Mapping select XSL as type under Mapping Program and press the search button in the Name section. The entire XSL mapping imported gets listed from where the desired mapping is chosen.

Operation Mapping Navigati	on <u>E</u> dit <u>V</u> iew 🎾	📙 🐘 🚺 🧼 🄶 !	₩ 🗢 🔿 🖪 🛄 😫			
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Namespace	http://					
Software Component Version	SWC_POC_					
Description						
Definition Test						
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		Туре	Name	Namespace	Binding	
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The desired output of the interface is as shown in the below screen.

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Namespace http://www.analogica.com				
Software Component Version SWC POC				
Description				
Definition Test				
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Instance "Internal Resource (Can Be Edited)"				
		Structure		Value
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T []MT XSLT Outhound	Value	▼ [a]Details		
▼ [a]Person		[@]Gender		Male
- [a] FiretName	Amit	[@]Name		Amit Srivastava
[a] acthome	Qrivactova	[w]Street		Street1
	Molo	[w]HouseAddress		5151/1,Bangaluru
	Male	▼ [8]Details		
- [lojAuuress	Ptropt1	[a]Gender		Male
	olieeli Cacada	. (a)Name		Anshul Chowdhary
	Dependence	[a]Street		Street2
- Percen	Dangaiuru	[a]HouseAddress		5555/1,Bangaluru
- [o] FirstName	Anshul			
al actione	Chewdhaw			
Gender	Male			
 Edddress 	india.			
AlStreet	Street?			
AlHouseno	5555/1			
	Bangaluru			
Douissont Dependence		Decument Perometers		
Parameters		Doounnent Parameters		

Example 2

There is one common problem in JDBC scenarios that whenever SP name changes at target side , we need to redo our graphical message mapping . So, in order to get rid of that we can use XSLT mapping. You just need to change the SP name in the XSL sheet . The scenario is as mentioned below:

The below given are the outbound and the inbound datatypes.

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🔒 Display Data Type				Status Active	9	Display Lan	guage	Englis	sh (OL) 🗓
Name	DT_XSLT	_JDBC_Outbou	ind						
Namespace	http://								
Software Component Version	SWC_PO	C, 1.0 g	-						
Description									
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Classification Free-Style Da	ata Type 🗳	1							
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Name	LT unityld	Category Complex Typ Element Element Attribute Element Attribute	Type pr xsd:string xsd:integer xsd:integer	Occurrence 1unbounde 1 required 1 required	Default	Details			
Name	unityld	Category Complex Typ Element Element Attribute Element Attribute Element	Type vsd:string xsd:integer xsd:integer xsd:string	Occurrence 1unbounde 1 required 1 required 1	Default	Details			
Name	unityld	Category Complex Typ Element Element Attribute Element Attribute Element Attribute	Type xsd:string xsd:integer xsd:integer xsd:string xsd:string xsd:string	Occurrence 1unbounde 1 required 1 required 1 required	Default	Details			
Name	unityld Created	Category Complex Typ Element Element Attribute Element Attribute Element Attribute Element	Type xsd:string xsd:integer xsd:integer xsd:string xsd:string xsd:string xsd:string xsd:string	Occurrence 1unbounde 1 required 1 required 1 required 1 1	Default	Details			

The XSLT mapping code is imported as mentioned in the above example.

Edit Importe	d Archive		Status	Active	Display Language
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ftware Compo	nent Version	SWC_POC_PI, 1.0			
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Name			Path		
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FOREACH	zip				
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new.zip					
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File <u>n</u> ame:	JDBC1.zip				
Files of type:	*.zip				
			Open Ca	ncel	

The xsl mapping used is as given below.

```
<?xml version="1.0" encoding="UTF-8" ?>
     <xsl:stylesheet version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:ns0="
http://XYZ.com/gen 1" xmlns:ns1=" http://XYZ.com/gen ">
   <xsl:template match="/">
   <ns1:MT_XSLT_JDBC_Inbound>
   <xsl:for-each select="ns0:MT_XSLT_JDBC_Outbound/Revenue">
   <StatementName>
   <spUploadXSLT>
  <xsl:attribute name="action">EXECUTE</xsl:attribute>
   <intOpportunityId>
  <xsl:attribute name="type">string</xsl:attribute>
  <xsl:value-of select="CorpDb_Oppt_Id" />
  </intOpportunityId>
   <txtEmpNoCreated>
  <xsl:attribute name="type">string</xsl:attribute>
  <xsl:value-of select="Emp_Created" />
  </txtEmpNoCreated>
   <txtEmpNoModified>
  <xsl:attribute name="type">string</xsl:attribute>
  <xsl:value-of select="Emp_Modified" />
  </txtEmpNoModified>
  </spUploadXSLT>
  </StatementName>
  </xsl:for-each>
   </ns1:MT_XSLT_JDBC_Inbound>
   </xsl:template>
   </xsl:stylesheet>
```

🎾 🗏 🖸 🖪 🌒 🔶 💔 🔒 🖽 🛃 Operation Mapping Edit View Display Operation Mapping Status Active E **Display Language** Name OM_XSLT_JDBC Namespace http:// SWC_POC_PI, 1.0 Software Component Version Description Definition Test Source Operation * **Target Operation** * þ 11% ■ | ▲ ▼ | X 画 画 Names... Softwar... Occurr.. Name Names... Softwa Name http://infosSWC_PO1 SI_XSLT_JDBC_OA SI_XSLT_JDBC_IA http://infosSWC_ Read Operations Parameters. 🔲 Use SAP XML Toolkit 🔲 Do Not Resolve XOP Includes 📃 Read Attachments Source Message Mapping Program * Target Messa 2 - 11X * Туре Name Namesp... Binding MT_XSL1 MT_XSLT_JDBC_0 XSL JDBC1 http://infosys -

Then the mapping is used in Operation Mapping to get the desired result.

The desired result is achieved as shown below.

🔓 Display Operation Mapping			Status	Active		Display Language	
Name	OM_XSLT_JDBC						
Namespace	http://						
Software Component Version	SWC_POC_PI, 1.0 cf						
Description							
Definition Test							
			Result				
Instance "Internal Resource (Can Be Edited)"							
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[D]Emp_Modified	Sr 2443		🐌 action		EXECUTE		
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			🗟 type		string		
			▼ [a]tdEmpN	oCreated	972445		
			🕉 type		string		
			 [c]bdEmpN 	oModified	Amit Sri		
			🗟 type		string		
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References

XSLT Tutorial - w3schools.com Blog: xpath functions in xslt mapping XSL Transformations (XSLT) Version 2.0 - w3.org XSLT Mapping for SAP PI 7.1 on help.sap.com

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