



Cloud Integration Gateway Mapping Tool Session - 2

Lavanya Kantala, Thales Nascimento November 9, 2022

PUBLIC



Agenda

- 1 Introduction
- 2 Hands-on
- 3 Common Questions
- 4 Q&A



Mapping tool webcast topics - 1

- Adding constant
- O Adding Source/Target Conditions
- Oreate/Replace Node
- Functions

Recording link for the webcast 1 : <u>Mapping Tool Draft 2</u> without HK.mp4 (sharepoint.com)

Presentation link for the webcast 1 : <u>CIG Mapping Tool.pptx</u> (<u>sharepoint.com</u>)



Mapping tool webcast topics - 2

- Ochoose-When
- For-Each
- Split Text
- Target Variable
 - Add Value Variable
 - Add Position Variable



How to access the CIG Mapping Tool

1. Access CIG through any of the Ariba Solutions.

Cloud Integration Gateway

The cloud integration gateway capability provides a self-service way to integrate SAP Ariba solutions with external ERP systems.

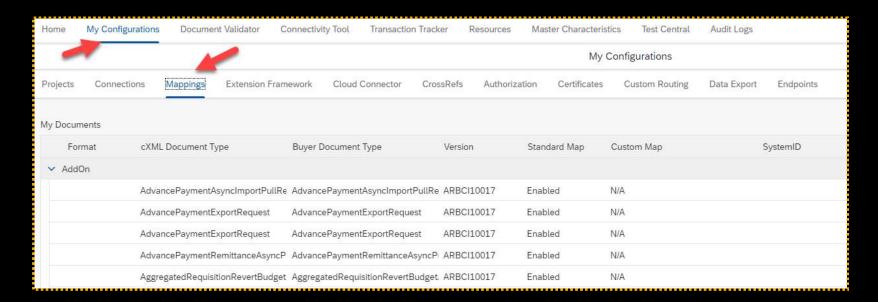
Status: Enabled Data Center: Europe

Visit the cloud integration gateway (Europe Data Center)

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How to access the CIG Mapping Tool

2. Click My Configurations > Mappings.



CIG Mappings

There are 3 level of mappings:

- Standard Mapping: The mappings that are delivered out of the box. These are the mapping transformation that are delivered for each and every document type available in CIG for all customers.
- Manual Extension Mappings: Mappings that are developed by CIG Engineering team under special circumstances.
- Custom Mappings: The mappings that are created by customers using the CIG Mapping Tool.

Priority of execution:



Mapping Examples

Idoc to cXML

In the following examples, we are using as reference scenario a Purchase Order (OrderRequest) that is created in SAP ERP sent to CIG as an IDOC to be transformed to a cXML, that will be sent to Ariba Network.

cXML to Proxy

In the following examples, we are using a reference scenario of a

Purchase Order(PurchaseOrderExportRequest) that is created in Ariba Procurement and sent to CIG as an XML to be transformed to Proxy, that will be sent to SAP ERP



Choose-When

What it does?

You can map one or more source elements to one target element with a condition for each source element. The source elements have a specific order and the first source element that meets the condition is mapped to the target element.

Example:

Source Condition xpaths: ARBCIG_ORDERS/IDoc/EDI_DC40/SNDPRN and ARBCIG_ORDERS/IDoc/EDI_DC40/RCVPOR

Target Condition xpath: cXML/Request/OrderRequest/OrderRequestHeader/Extrinsic



We can also choose the order of the source condition:



Choose-When

Result

When SNDPRN is H82CLNT800

200 CALMON MARIO PORTO NACIONALIA 2000 CALMONO	при
<extrinsic name="AribaNetwork.PaymentTermsExplanation">14 day s 3%, 30/2%, 45 net</extrinsic>	<extrinsic name="AribaNetwork.PaymentTermsExplanation">14 day s 3%, 30/2%, 45 net</extrinsic>
	197 <extrinsic name="SystemID">H82CLNT800</extrinsic>
400 (0.1.5)	100 10 1 0 111 1

When SNDPRN is not H82CLNT800, the value takes from RCVPOR

195 _s	<extrinsic name="AribaNetwork.PaymentTermsExplanation">14 day 3%, 30/2%, 45 net</extrinsic>	196 s	<extrinsic name="AribaNetwork.PaymentTermsExplanation">14 day 3%, 30/2%, 45 net</extrinsic>
		197	<extrinsic name="SystemID">CIGPORT</extrinsic>

Important:

The Value field is mandatory, except when you select the none operator. The none operator is allowed for the last source element. This mapping will be executed if no condition will be true.

If there is only one line left in the Choose-When dialog, it is not possible to delete it.

More information can be found on How to map more than one source element to a target element | SAP Help Portal

Mapping Tool Limitations found on What are the CIG Mapping Tool limitations?

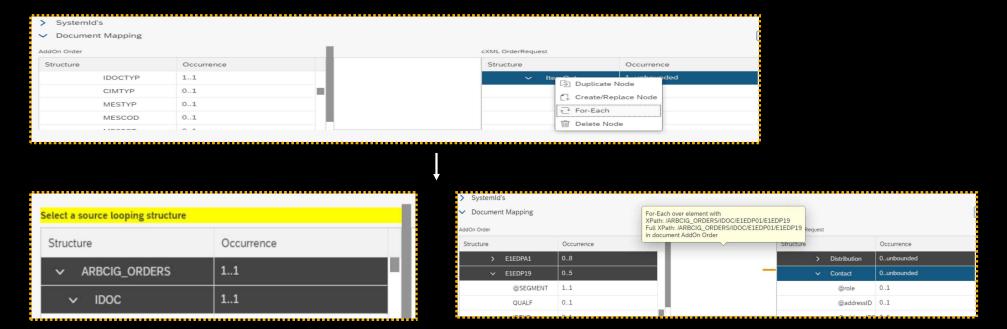
For-Each

What it does?

Use the For-Each node to create a target node set by looping over a source element.

Example:

For-Each E1EDP01/E1EDP19 repeat the OrderRequest/ItemOut/Contact in Target structure



For-Each

Result

OrderRequest/ItemOut/Contact is repeated 4 times as per E1EDP01/E1EDP19

Home	My Configurations	Document Validator	Connectivity Tool	Transaction Tracke	r Resources	Master Characteristics	Test Central	Http Logs	
			Mapping Differen	ces - 'Mapping Too	ol Extension Trans	sformation'			Clo
✓ Bu	yer AN01397750680-T N	Mapping Tool Extension T	ransformation success	sfully completed for D	ocument : AddOn -	Order - ARBCI10017			
Standard	Mapping Transformation	n - Custom Mapping Tran	sformation			Na	avigate to previou	us/next difference	< >
				224	<contact></contact>				
				225	<name xm<br="">space">Test<td>ıl:lang="EN" xmlns:xml= me></td><td>="http://www.w:</td><td>3.org/XML/1998</td><td>3/name</td></name>	ıl:lang="EN" xmlns:xml= me>	="http://www.w:	3.org/XML/1998	3/name
				226					
				227	<contact></contact>				
				228	<name xm<br="">space">Test<td>l:lang="EN" xmlns:xml= me></td><td>"http://www.w</td><td>3.org/XML/1998</td><td>3/name</td></name>	l:lang="EN" xmlns:xml= me>	"http://www.w	3.org/XML/1998	3/name
				229					
				230	<contact></contact>				
				231	<name xm<br="">space">Test<td>l:lang="EN" xmlns:xml= me></td><td>"http://www.w</td><td>3.org/XML/1998</td><td>3/name</td></name>	l:lang="EN" xmlns:xml= me>	"http://www.w	3.org/XML/1998	3/name
				232					

Important:

To add a condition, select a node on the source table, and select Add Condition from the context menu. This condition has the same restrictions as the conditions for the regular mappings.

You can also add Target Variable for For-Each.

Mark a repeatable leaf or a mixed type element with a For-Each marker additionally to the regular mapping. This allows you to create example multiple extrinsic with the For-Each marker.

Please note that the For-Each function's purpose is to create new repeatable structures, and not to update the existing values of a looped structure. This means that the For-Each will only work for non-standardly repeated segments (e.g. PO_EXTENSIONIN/item for PurchaseOrderExportRequest). If the structure needed is already repeated by standard (e.g. PO_ITEMS/item for PurchaseOrderExportRequest), then the Position / Variable loop should be used.

More information can be found on How to create a target node set | SAP Help Portal and How to use the For-Each function on the CIG Mapping Tool?

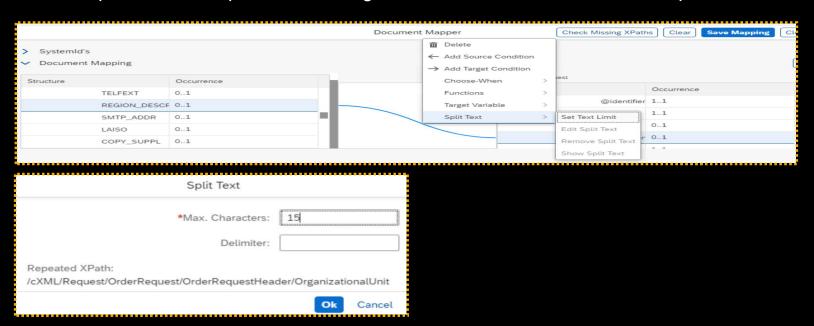
Split Text

What it does?

Specify the parameters for splitting the lines in the text descriptions into multiple lines for each transaction.

Example:

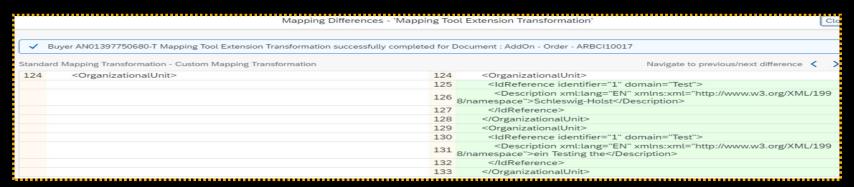
Map E1EDKA1/E1ARBCIG_PARTNER_INFO/REGION_DESCRIPTION to OrderRequest/OrderRequestHeader/OrganizationalUnit/IdReference/Description



Split Text

Result

OrganizationalUnit segment is repeated based to Set text limit as 15 for the Description field in Target structure



Important:

Max. Characters: Allows you to specify the maximum number of characters allowed per line in the text description. This is a mandatory parameter. Ensure that you enter only positive integer values.

Delimiter: Allows you to specify a delimiter to split the line (line breaks) in the text description. This is an optional parameter. You can specify both the Max. Characters and Delimiter parameters for the target element.

More information can be found on:

- How to specify the parameters for splitting the lines in the text descriptions | SAP Help Portal
- Why Split Text function from CIG mapping tool does not work?
- Split Text Function in CIG Mapping Tool gives error: Creating split text loop failed, selected node is an invalid node of the split text mapping.

Target Variable

What it does?

The target variable allows you to map source values to the target matching the target's occurrence position(position variable) or matching element value/content (value or content variable). When creating the Target Variable, you have to choose between position or value. This conditions are usually used when you are mapping the fields that are line-item level and you have more than one line item

Target Position Variable

To map source values to the target matching the target's occurrence position. Use position variable when you have same number of repeated segments in source and target

Target Value Variable

The Target Value Variable implements a conditional mapping that applies the mapping to a target matching a source condition of the Value Variable type.

Use Value variable when you have a unique field that is repeated same number of times in source and target

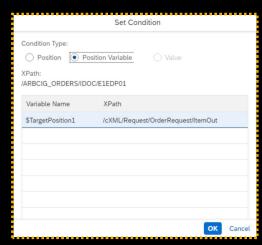
Target Position Variable

Examples Map E1EDP01/VPREI to Target ItemOut/Quantity with a PO contains 2 line items

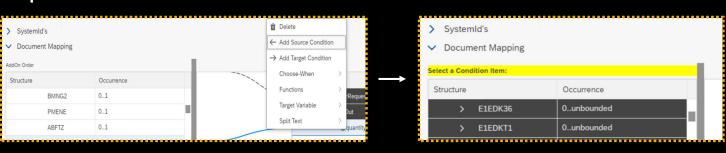
Step 1: Add Target position Variable and select ItemOut



Step 3: Select Position Variable in the Set Condition screen



Step 2: Add Source condition and select E1EDP01



Target Position Variable

Result

Before using Target position variable - The Value of quantity is getting concatenated from 2 line items

245		248	
246	<pre><itemout linenumber="00020" quantity="3.000" requesteddeliverydate="2022-10-26T12:00:00-04:00"></itemout></pre>	249	<pre><itemout linenumber="00020" quantity="35" requesteddeliverydate="2 022-10-26T12:00:00-04:00"></itemout></pre>
247	<itemid></itemid>	250	<itemid></itemid>

After using Target position variable

196		199	
197	<pre><itemout "2022-10-26t12:00:00-04:00"="" linenumber="00010" quantity="3.000" requesteddeliverydate=""></itemout></pre>	200	<pre><itemout linenumber="00010" quantity="3" requesteddeliverydate="20 22-10-26T12:00:00-04:00"></itemout></pre>
198	<ltemid></ltemid>	201	<ltemid></ltemid>

Important

More Information can be found on:

- How to add target position variable | SAP Help Portal
- Why is the target field showing multiple values if I have more than one line item?

Target Value Variable

Examples

PurchaseOrderExportRequest/ERPOrder_PurchOrdLineDetails_Item/Item/LineItems/Item/CommodityCode/Unique Name to Target PO_ITEMS/item/MATL_GROUP with a PO contains 2 line items

Step 1: Add Target Value Variable and select

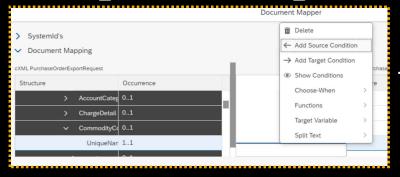
PO ITEMS/Item/PO ITEM



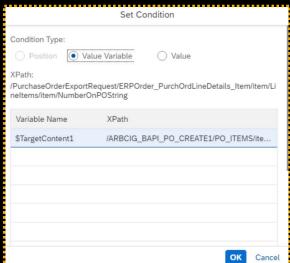
Step 3: Select Value Variable in the Set Condition screen

Step 2: Add Source condition and select

ERPOrder_PurchOrdLineDetails_Item/Item/LineItems/Item/NumberOnPOString







Target Value Variable

Result

Before using Target value variable – The Value of MATL_GROUP is getting concatenated from 2 line items

33	<plant>3000</plant>	38	<plant>3000</plant>
34	<matl_group>49000000</matl_group>	39	<matl_group>490000005000000</matl_group>
35	<vend_mat>MainItem</vend_mat>	40	<vend_mat>MainItem</vend_mat>

After using Target value variable

33	<plant>3000</plant>	38	<plant>3000</plant>
34	<matl_group>49000000</matl_group>	39	<matl_group>49000000</matl_group>
35	<vend_mat>MainItem</vend_mat>	40	<vend_mat>MainItem</vend_mat>

Important

More information can be found on:

- How to add target value variable | SAP Help Portal
- How can I perform the loop function in CIG with value variable?

Common Questions



How to handle complex mappings?

If the requirement is too complex to be met with the features and functions available in the mapping tool, we can handle the logic in the SAP ERP using BAdI. For inbound documents in the ERP we can map the information to extension segments and for outbound documents sent from ERP to CIG, we can perform the required transformation in the data before sending to CIG.

I need to perform a complex mapping, why should I handle this using BAdI?

- We can create complex logics using BAdI.
- Having the logic in your own environment decreases the dependency when you have to make any changes.
- EXTENSIONIN segments are available to be used to store information that will be handled in the BAdI.

FAQ Article: How can I map extension segments in the CIG Mapping Tool?

Where can we get more information?

List of available channels that we can use to get more information about the CIG Mapping tool:

- CIG Help Portal: SAP official documentation about the product.
- Ariba Knowledge Base: Repository of articles created in a daily basis by the team.
- Documentation for the SAP Ariba Cloud Integration Gateway Mapping Tool.
- Access SAP Ariba CIG (CIG) Community: Ask our experts a question, engage with other community members, follow latest blogs and stay up-to-date with the latest announcements and features.

Reference Documentation / Support Articles



CIG Community

https://community.sap.com/topics/ariba-cloud-integration-gateway

CIG Help Portal

https://help.sap.com/viewer/product/ARIBA_CIG/latest/en-US?task=whats_new_task

CIG Mapping Tool Master KBA:

- https://launchpad.support.sap.com/#/notes/2835469
- https://support.ariba.com/item/view/183473

Documentation for the SAP Ariba Cloud Integration Gateway Mapping Tool

https://support.ariba.com/item/view/184627

BAdls - Sap Help Portal

 https://help.sap.com/viewer/12aa7f056c531014aa5bca7aee037e55/latest/en-US/e6d54d3c596f0b26e10000000a11402f.html



Bharath Balakrishnan: TSE, Cloud Integrations

Lavanya Kanatala: TSE, Cloud Integrations

Thales Nascimento: TSE, Cloud Integrations

Marcelo Daros: TSE, Cloud Integrations

Cinthia Guzman Rodrigues: Engineering, Cloud Integrations



Lavanya Kantala, TSE, Cloud Integrations Thales Nascimento, TSE, Cloud Integrations

