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Buddhika Krishantha June 21, 2017 2 minute read

SAP RFC Function Module as REST GET service

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Hi All,

This is my first blog.

This is a step by step example of how to consume RFC function module as REST Service using GET operation.

System: SAP PI 7.4

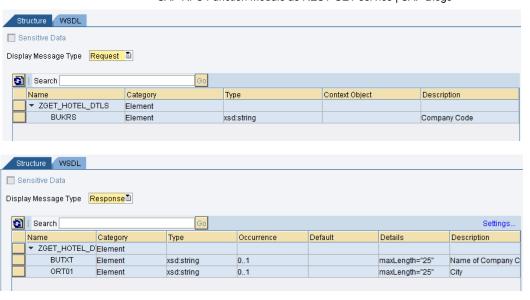
This example will follow this workflow:

3rd Party System <-> PI RESTAdapter (*JSON*) <-> PI Mapping (*XML*) <-> PI RFC Adapter(*XML*) <-> SAP R3 Bussiness Case Description

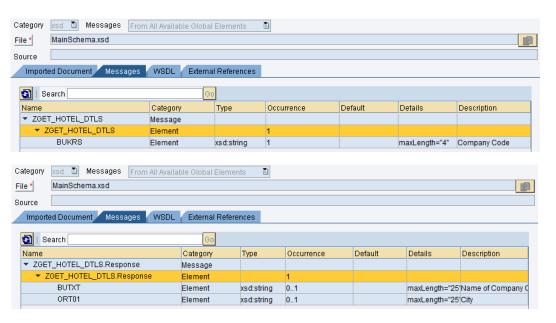
A 3rd party system consumes a REST service which published in SAP PI to get the company name and the city.

Scenario – We are going to pass Company Code(BUKRS) as a parameter (GET operation) and get the Company Name and City as output.

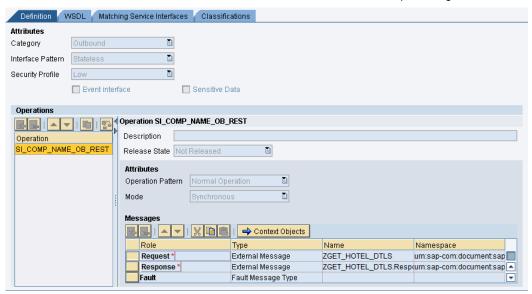
Import the Function Module to ESB.



I used external definitions as data types.



Create Service Interface. Use External Definitions for the Request and Response.



Create Message Mapping for Request and Response.In Request Mapping Add Custom Function.

I have added function named getBUKRS with two parameters which named namespace and attribute.

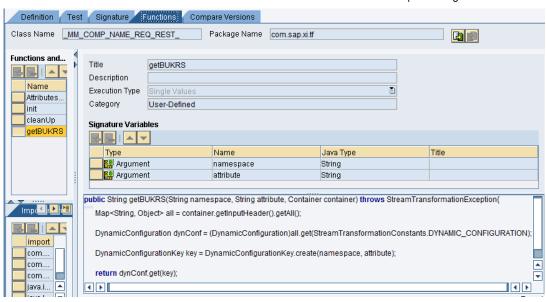
Added following code into the function body. (This function is usnig for extract the parameter from the URL)

Map<String, Object> all = container.getInputHeader().getAll();

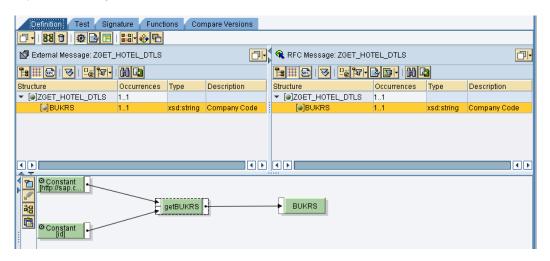
DynamicConfiguration dynConf =

(DynamicConfiguration)all.get(StreamTransformationConstants.DYNAMIC CONFIGURATION);

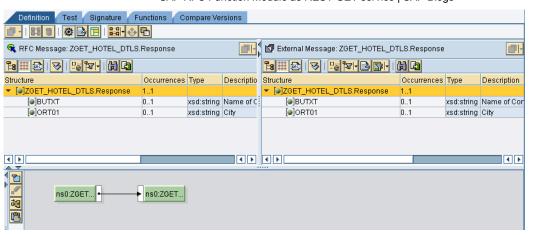
DynamicConfigurationKey key = DynamicConfigurationKey.create(namespace, attribute); return dynConf.get(key);



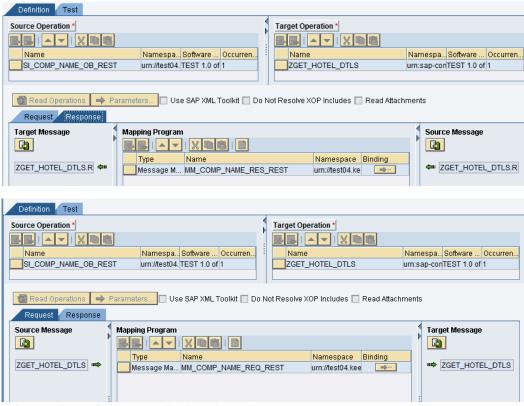
Map Request as following. Pass http://sap.com/xi/XI/System/REST and "id" for the constants.



Map the response.



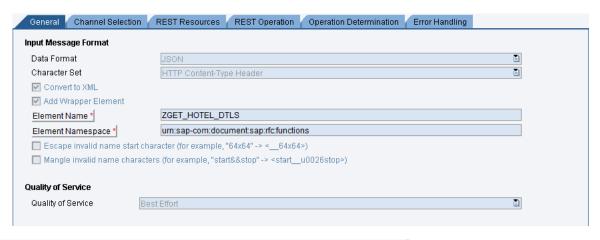
Create Output Mapping.

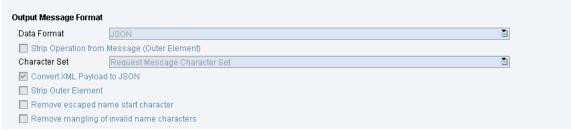


Go to Integration Builder and create **receiver** and **sender** communication channels. Receiver-

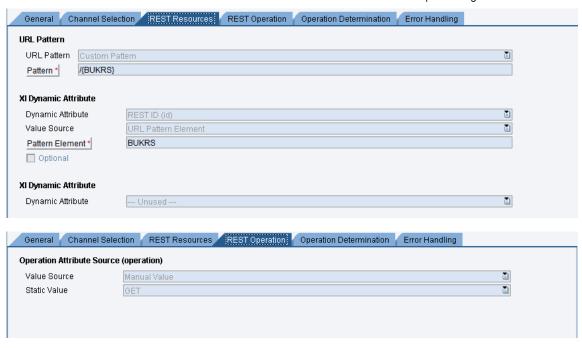


Sender-



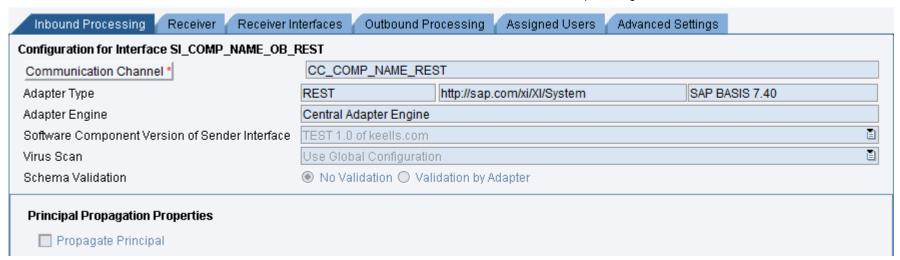


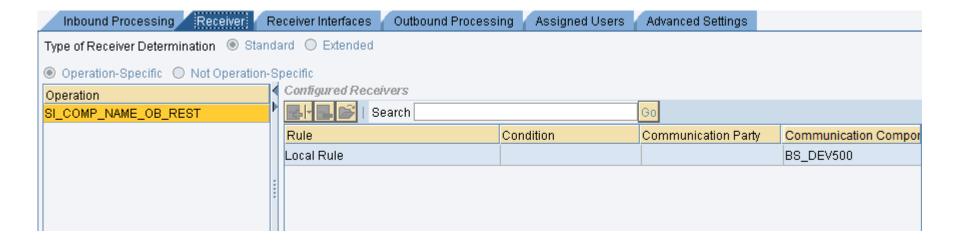


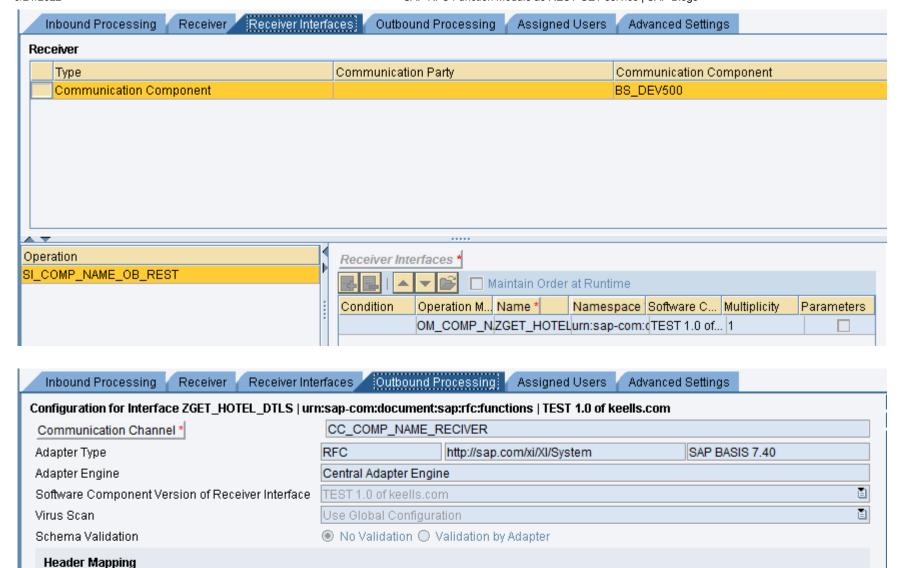




Create Integrated Configuration.







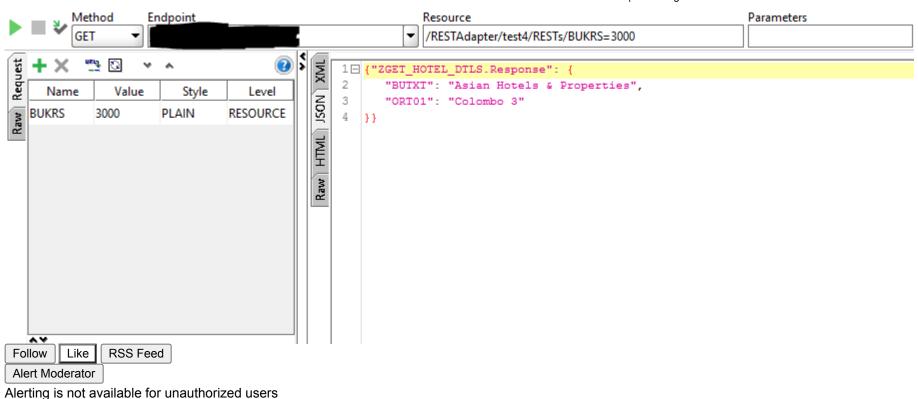
Propagate Principal
Test using SOAP UI.

Sender Communication Party

Principal Propagation Properties

□ Sender Communication Component
 □ Receiver Communication Party

Receiver Communication Component



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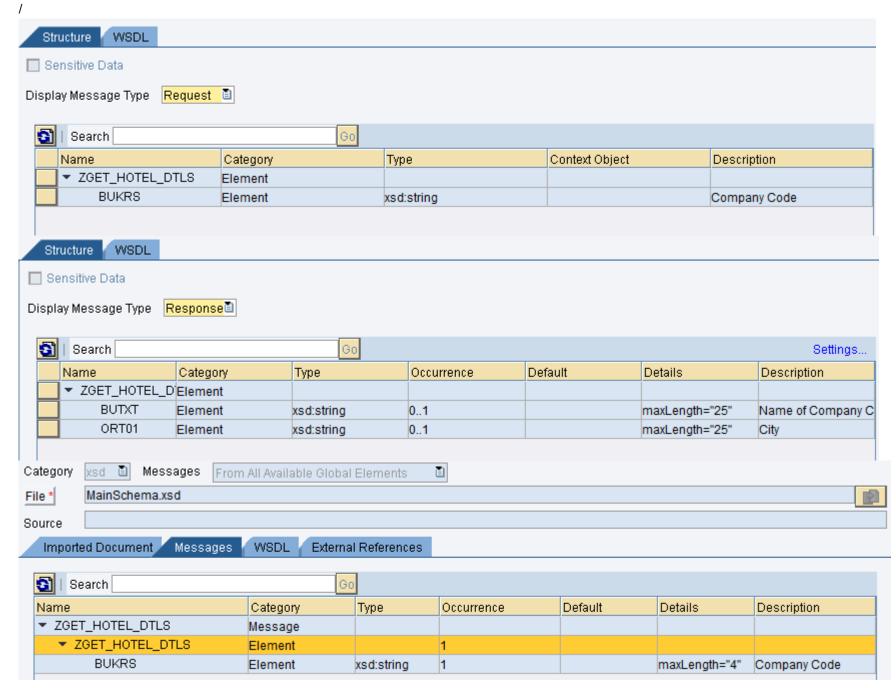
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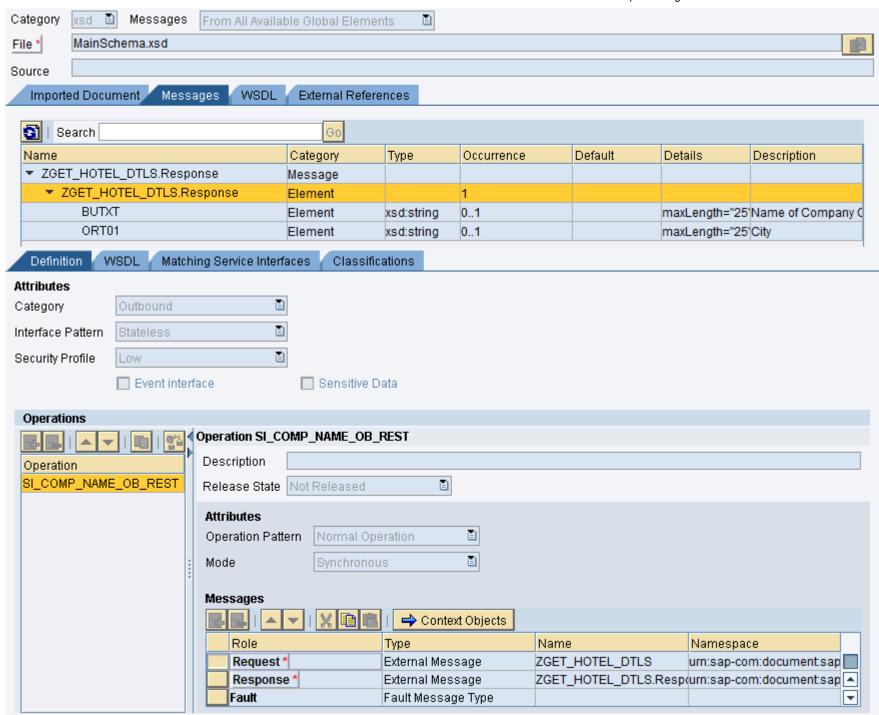
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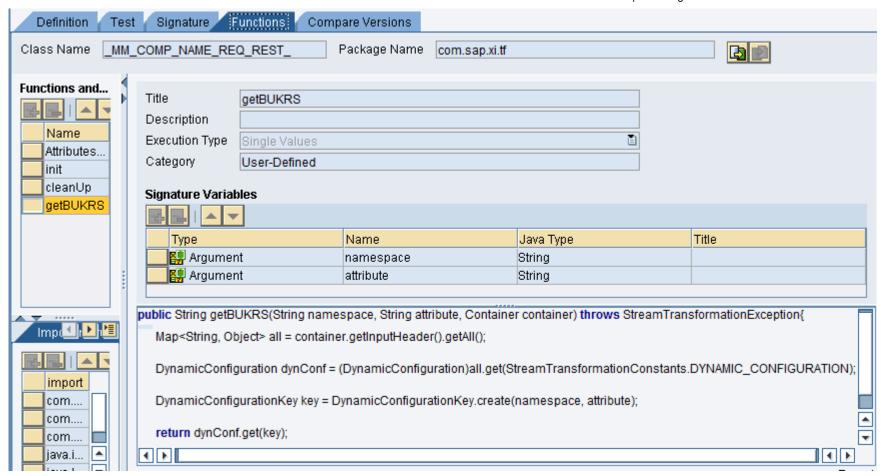
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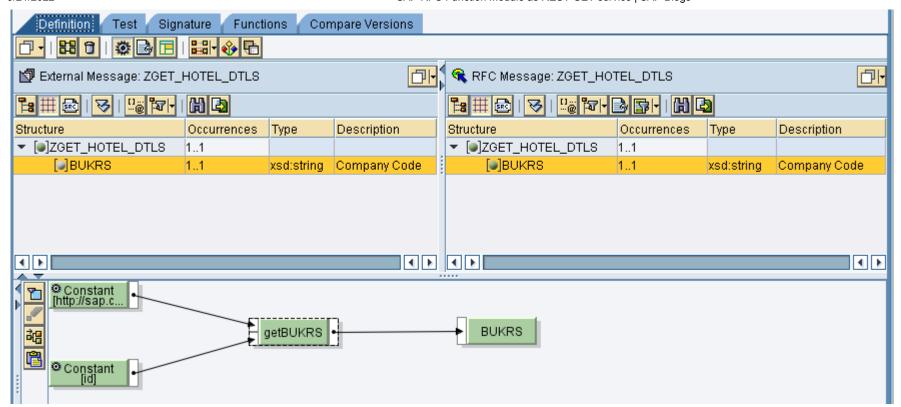
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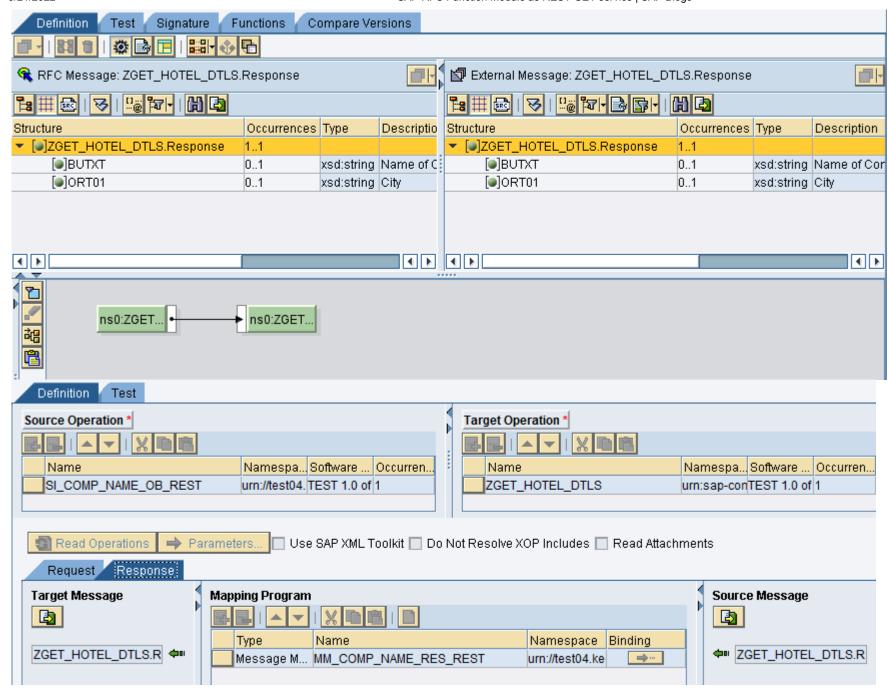
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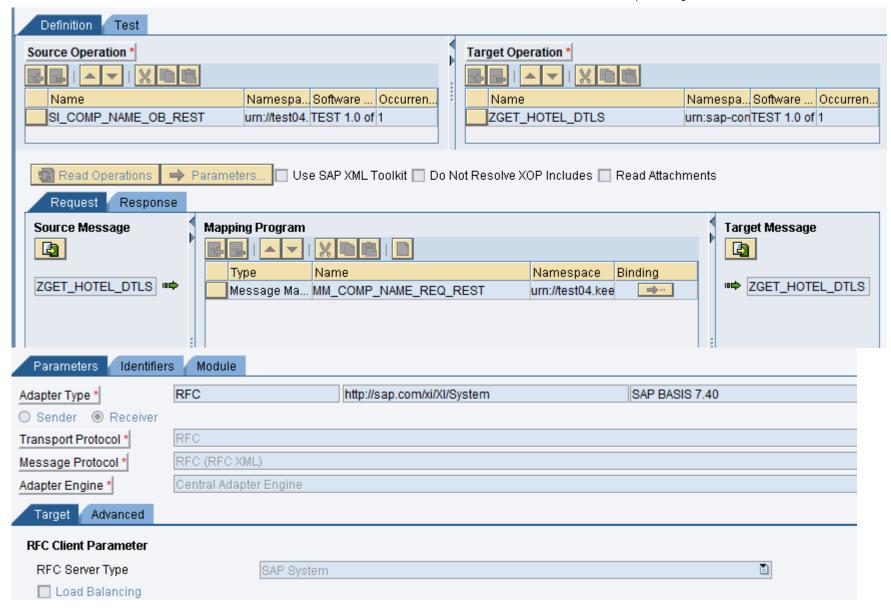




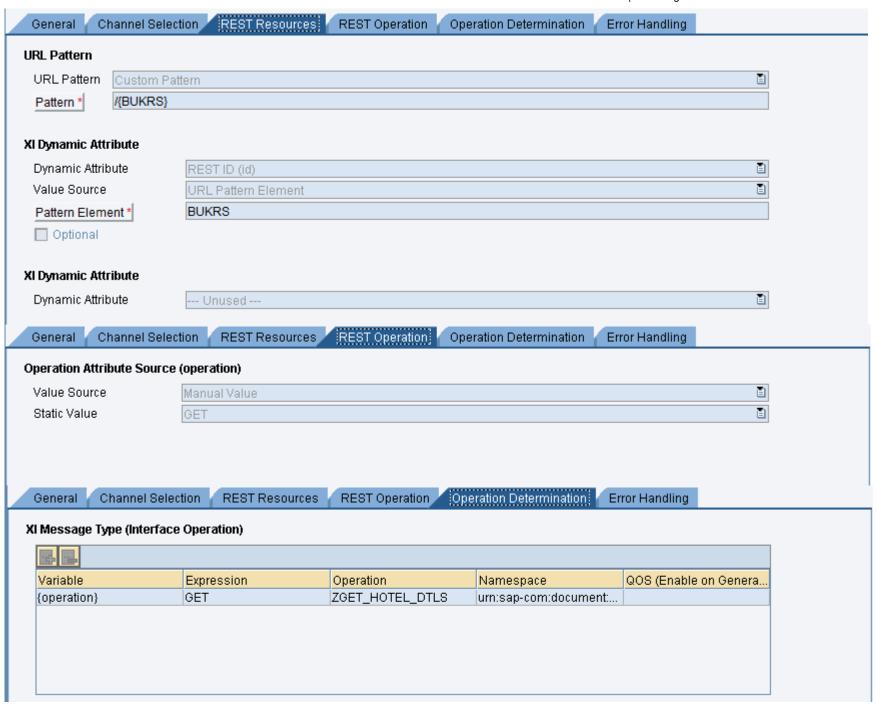


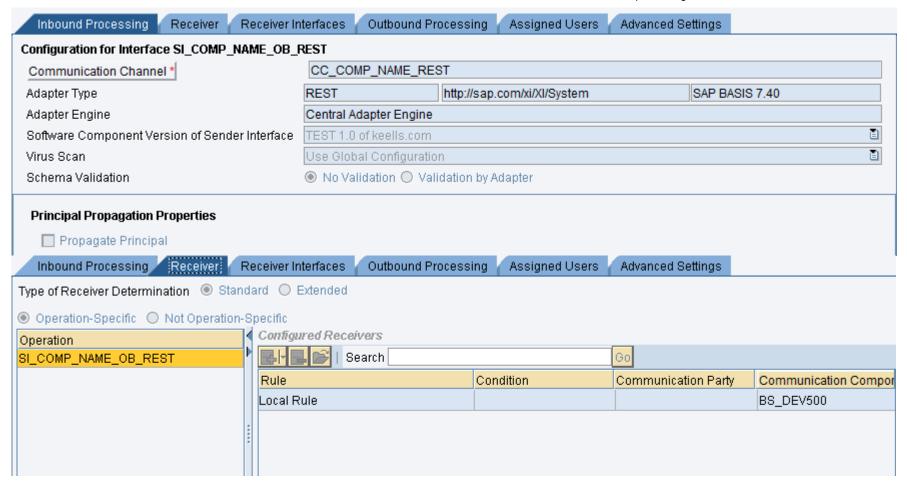


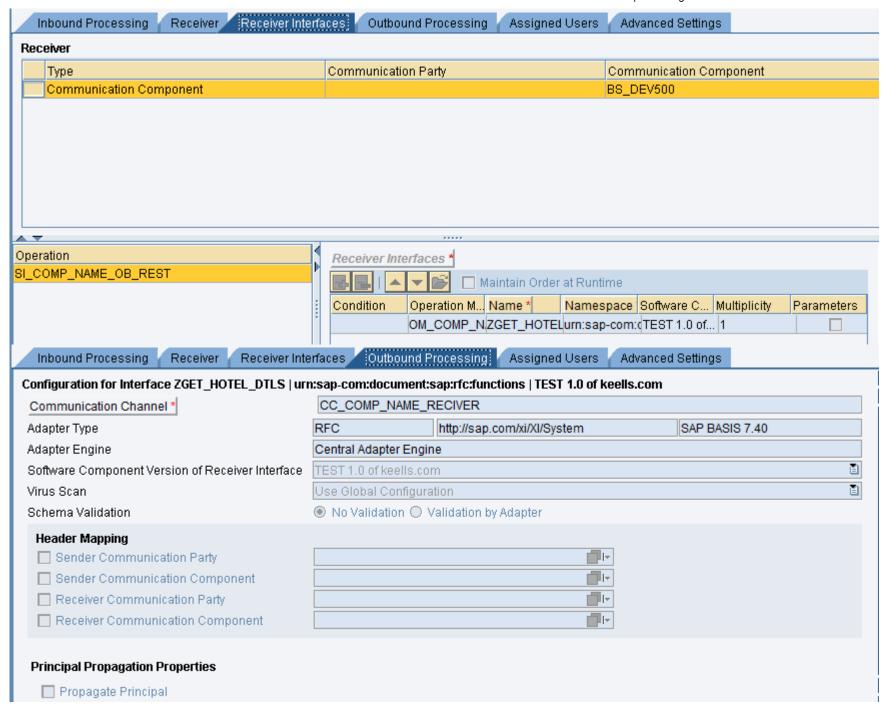


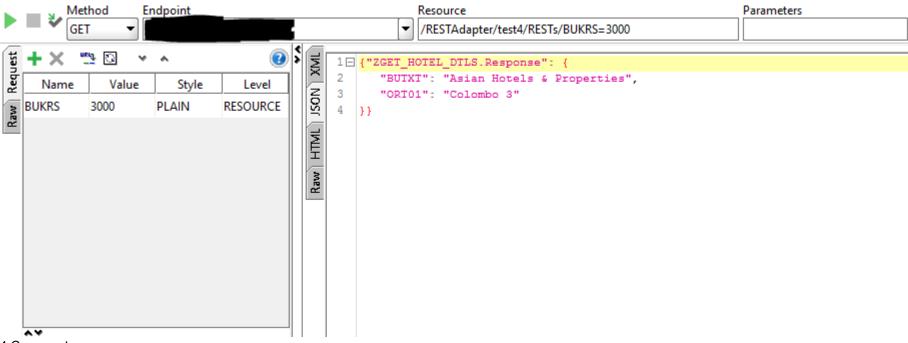


General Channel Selection	REST Resources REST Operation Operation Determination Frror Handling	
Input Message Format		
Data Format	JSON	
Character Set	HTTP Content-Type Header	1
✓ Convert to XML		
Add Wrapper Element		
Element Name *	ZGET_HOTEL_DTLS	
Element Namespace *	urn:sap-com:document:sap:rfc:functions	
Escape invalid name start cha	aracter (for example, "64x64" -> <64x64>)	
Mangle invalid name characters (for example, "start&&stop" -> <startu0026stop>)</startu0026stop>		
Quality of Service		
Quality of Service	st Effort	
Output Message Format		_
Data Format JSON		
Strip Operation from Message (Outer Element)		
	: Message Character Set	ā
✓ Convert XML Payload to JSON		
Strip Outer Element		
Remove escaped name start character		
Remove mangling of invalid na	ame characters	
General Channel Selection	REST Resources REST Operation Operation Determination Frror Handling	
Channel Selection		
✓ Specify Endpoint		
	test4/RESTs	
Limit to JSON Element		
Limit to XPath Element		
	GET	









4 Comments

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Former Member

December 21, 2017 at 10:13 am

Hi experts!!

I have a similar case, I am trying to consume RFC function module as REST Service but using a POST operation. I think I am not able to construct the request message in JSON, I am getting the following Error message in SOAPUI:

"InterfaceDetermination did not yield any actual interface"

Can someone help?

Thank you,

Like 0

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Michael Sargent

July 22, 2020 at 11:33 pm

A bit late, but maybe useful to others searching. This is possible. see https://sapintegrationhub.blogspot.com/2019/08/end-end-scenario-with-rest-sender.html

Like 0

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Glen Anthony

August 2, 2020 at 3:25 pm

Hi,

Does anyone know how to do the above where the RFC has 4 import parameters? There are many examples of where the RFC has 1 import parameter, but none where the RFC has more than 1 import parameter!

Like 0

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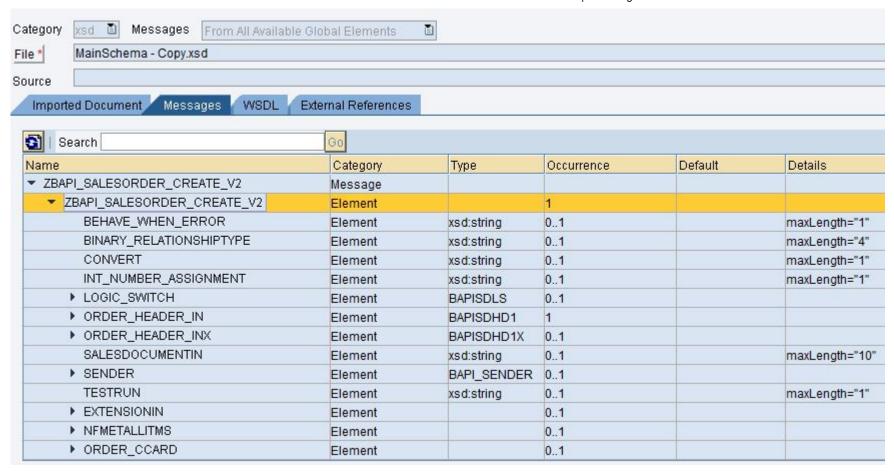


Buddhika Krishantha

Blog Post Author

August 4, 2020 at 9:47 am

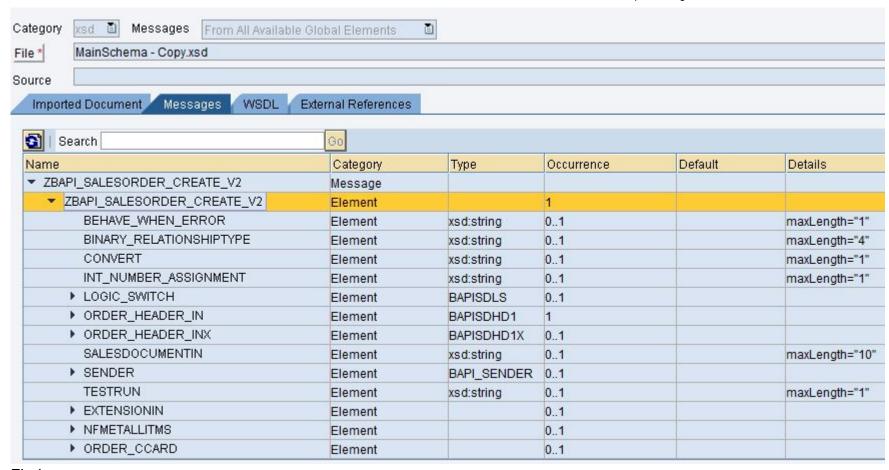
it is possible. Below is a external definition of multiple import parameters. May be I can help you, If you are more specific on your problem,



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