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Consuming a web service in ABAP

July 21, 2017

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Consuming a WebService

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Let's start:

In this exercise, we will look at how we can consume a web service using a client proxy using ABAP.

Why do we need a Web service Client Proxy:

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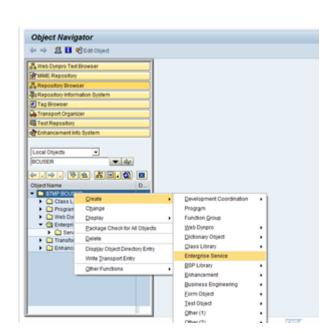
3. Creation of Valid SOAP messages and evaluation of received responses is taken care by the proxy.

So a developer can concentrate on the Business Application without bothering about the technical aspects that is how the SOAP messages are exchanged.

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Step 1: To start the Service Wizard again, from SE80 right click and choose Create->Enterprise Service.

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Step 2 : This time in the *Object Type* step of the Service Wizard, choose **Service Consumer.**

as we are at the consumer site.

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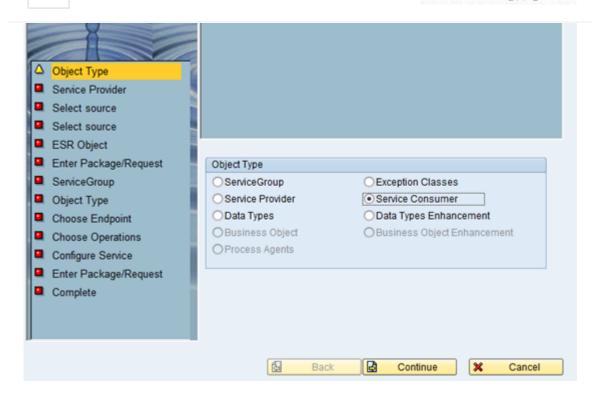
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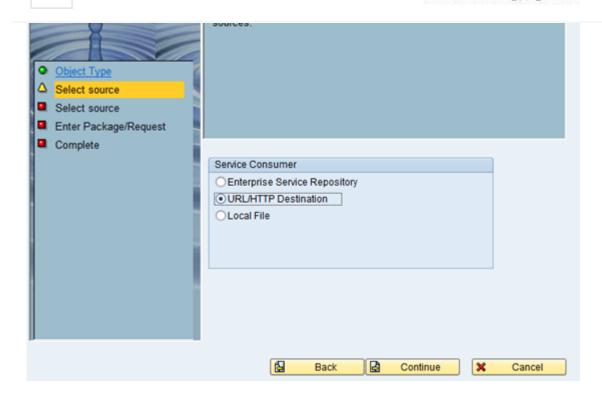


Step 3:

For the source of the Service Consumer, you can choose between the Enterprise Service Repository, a URL to a WSDL or the local file location of a WSDL, a UDDI, and the Service Registry. Please choose **URL/HTTP Destination**.

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Step 4: Enter the URL of WSDL file which we had created in an earlier exercise.

http://sapignite.com/create-a-web-service-in-10-minutes/

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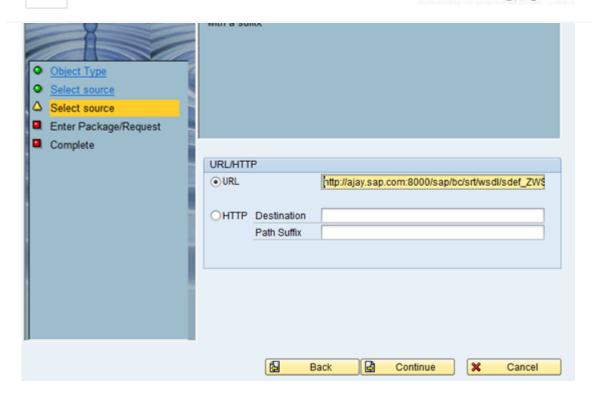
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Fill in the necessary details in the wizard.

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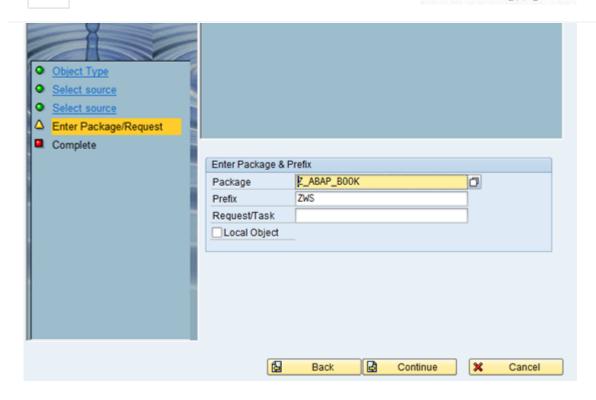
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On the final step, you can press Complete to start the Proxy object generation.

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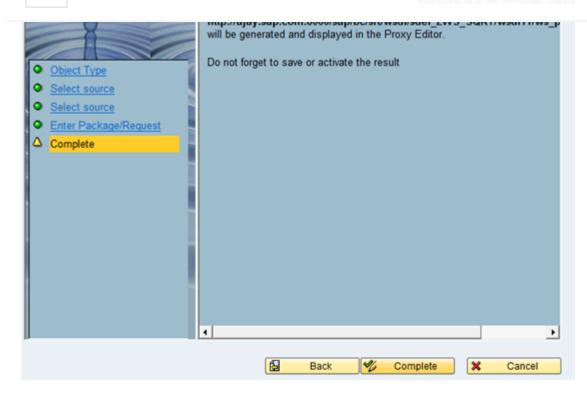
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You will be promoted for your logon User name and Password.

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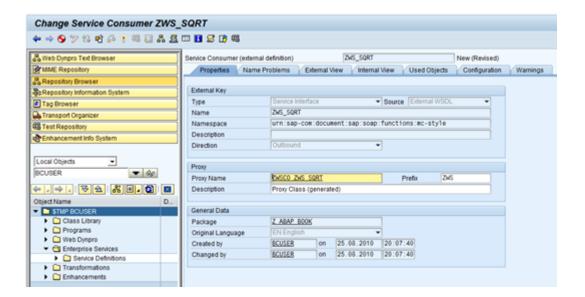
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Client	001
Username	ajay
Password	******
Language	EN

The generated proxy class is now displayed. Click on save and activate.



Go back to transaction **SOAMANAGER** and in order to setup a Logical Port for our new Service Provider.

Logical Ports are used to configure runtime features of a web service.

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A consumer proxy never stores any details regarding the URl server which are specific to one system.

These details need to be configured through logical ports and endpoints.

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Go back to transaction **SOAMANAGER** and in order to setup a Logical Port for our new Service Provider.

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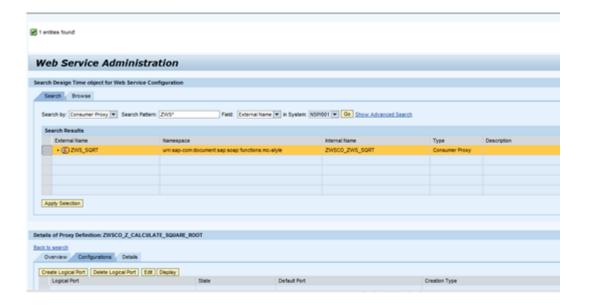
We will navigate to the same location as the last exercise - the Service Administration tab and then click the link named Single Service Administration.

This time when you search in the *Web Service Administration*, choose to Search by **Consumer Proxy**. Don't forget to press the *Apply Selection* button aft highlighting your proxy.

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From the Configurations tab, choose to Create Logical Port.

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definition. Finally, you will again need to supply the WSDL UKL for the services you are can (nopertify you still left that browser window open). You also in supply your system User name and Password to access the WSDL.

OA Managem	ent 🗆 🗆
	General Configuration Settings
	Logical Port Name: * ZP00 Logical Port is Default: ☑ Description: □
<u> </u>	Configuration Type WSDL Based Configuration Manual Configuration Process Integration Runtime
	WSDL Access Settings
	WSDL Base Via HTTP Access Via File
	WSDL Location
	URL for WSDL Access: * E4034BF1905F463500000031/wsdi11/allinone/ws_policy/document?sap-client=001 WSDL Access User: ajay WSDL Assess User Password: Show/Hide Proxy Settings
	Apply Settings Cancel

If successful, you will be returned to the *Configuration for Logical Port* screen. From here you can further define the settings for this logical port. For now, need to embed user credentials for calling this Enterprise Service. So once again input your User name and Password and then Save the Logical Port.

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Consumer Security Additional	al Information Messaging Transport settings Operation specific	()
Configuration of Consumer Se	Settings additional to WSDL Document Information LP=ZP00	
User ID/Password		
User Name: ajsy		
Password: •••••		
Properties from WSDL Docu		
	oment	
Authentication		
	p:HTTPBasic	
Authentication Method: sapsp		
Authentication Method: sapsg		
	\$SL	
Transport Security Secure Communications: Signature Expected:	false	
Transport Security Secure Communications:		

You can now return to the ABAP workbench in the package ZPROXIES and the definition of your Service Consumer and test it.

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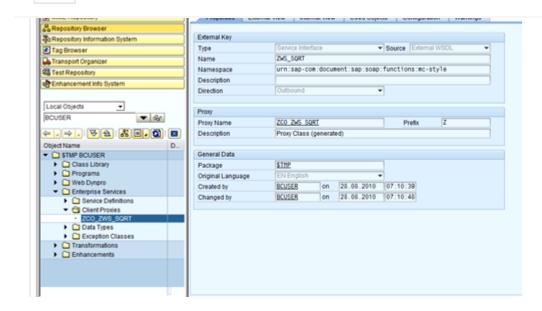
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On the Test Service Consumer options dialog , choose ZSQRT $\,$

Method Name. Finally execute the test.

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Logical Port Name	ZP00	0
Method Name	ZSQRT	
nput		
Generate template data	Generate initial template data	
oxsimil for all Leaf Elements	oxsi:nil for nillable Leaf Elm.	
Deletion Indicator		
Processing		
Extended XML Handling		
☐ Enforce stylesheet generation		
		Check

Switch to the XML Editor and replace the number value with 16. You can go ahead and execute the request call.



The response should show the XML version of the square root



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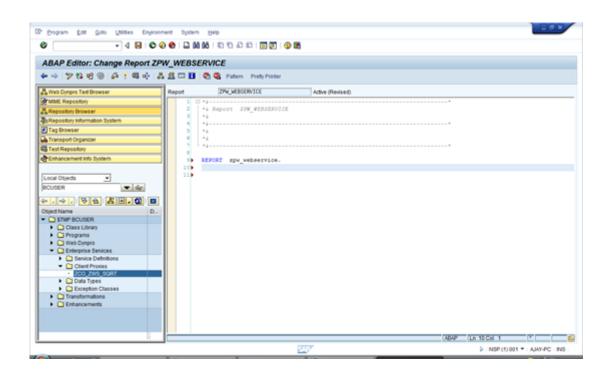
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Drag and Drop the proxy class ZCO_ZWS_SQRT and you get the template for consuming. This looks like as shown below.

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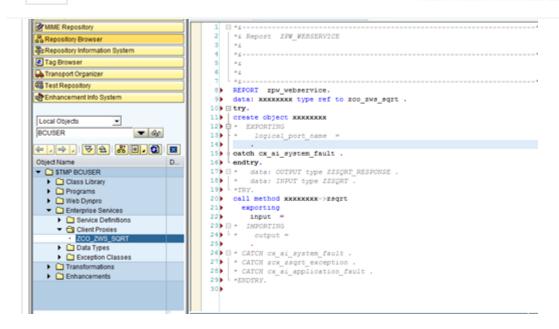
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Modify the template for invoking the web service with the below code.

REPORT zpw_webservice.

DATA: proxy TYPE REF TO zco_zws_sqrt .

DATA: output TYPE zzsqrt_response.

DATA: input TYPE zzsqrt.

input-number = '1212'.

TRY.

CREATE OBJECT proxy

EXPORTING

logical_port_name = 'ZP00'.

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TRY.

CALL METHOD proxy->zsqrt

EXPORTING

input = input

IMPORTING

output = output.

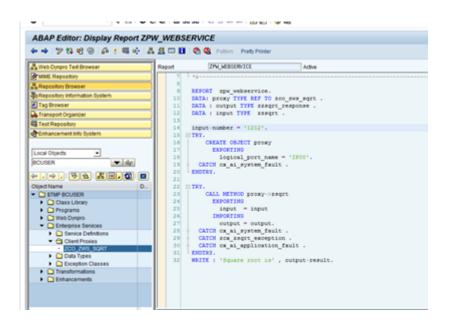
CATCH cx_ai_system_fault .

CATCH zcx_zsqrt_exception .

CATCH cx_ai_application_fault .

ENDTRY.

WRITE: 'Square root is', output-result.



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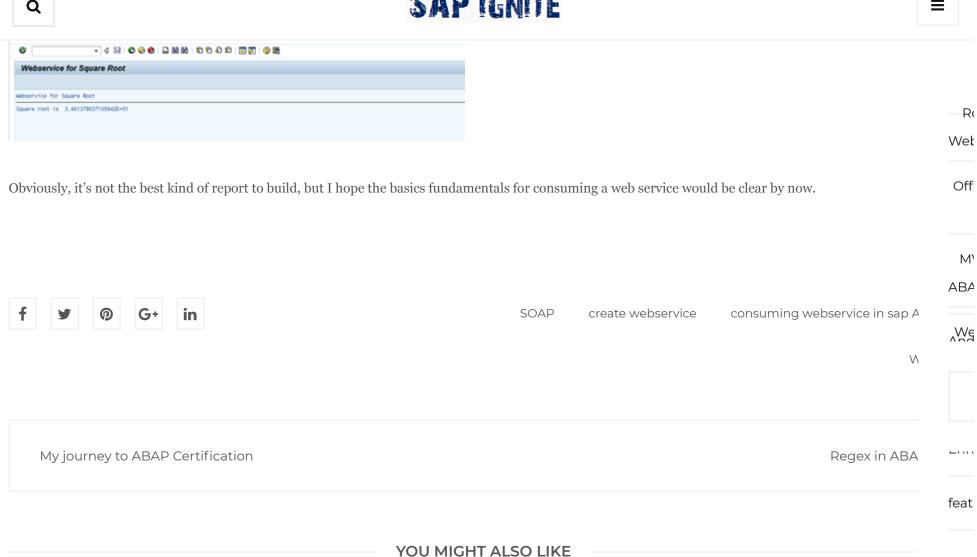
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August 2, 2017



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August 15, 2017

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LEAVE A REPLY		
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POST COMMENT

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