**Web Service - Service Provider**

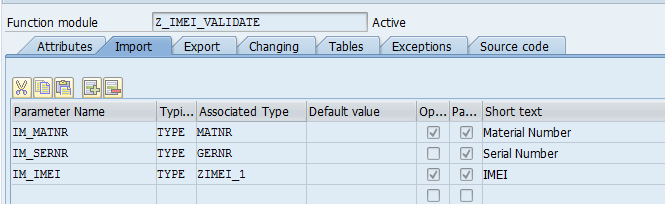
During Run time, if third party wants to access / validate / retrieve some data from SAP then we can provide them RFC. There are some middleware like TIBCO which can consume RFC and provide the details to third party. Third party systems directly can access ERP System using Web Service.

Suppose there is a scenario, there is some portal to sell Jio Phones and Phones will have some Material, Serial and IMEI Numbers that needs to be validated from SAP System. In such scenarios, we can provide the WSDL file to third party system.

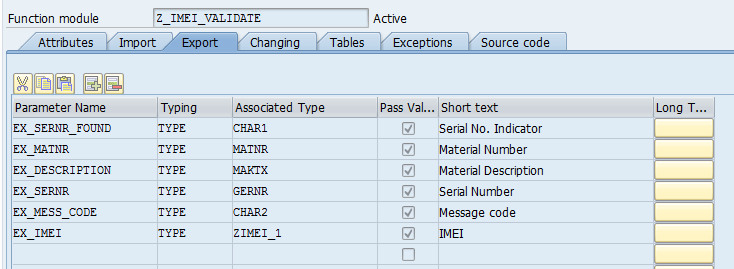
To validate the details, we will be getting Material, Serial and IMEI Numbers as input, and have to provide Material, Description and success flag.

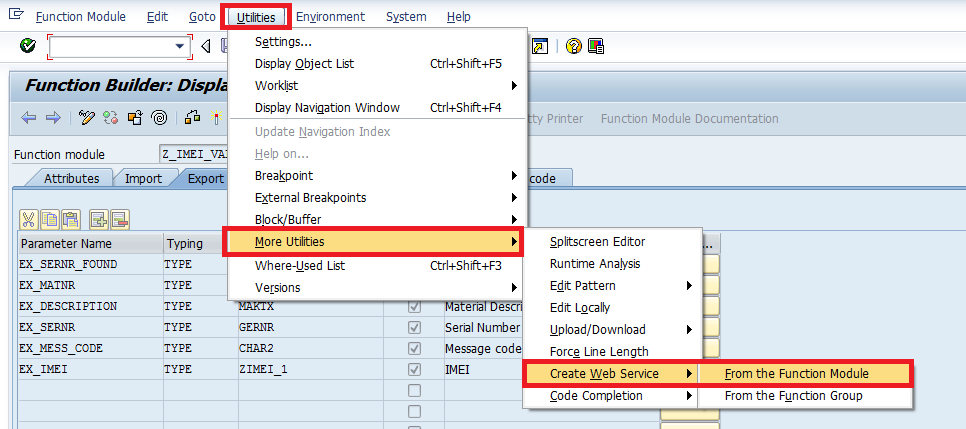
First, we need to create one RFC with the provided details. (RFC: Z\_IMEI\_VALIDATE, Server: DER)

**Importing Parameters:**

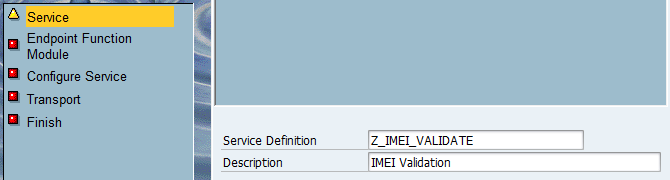


**Exporting Parameters:**

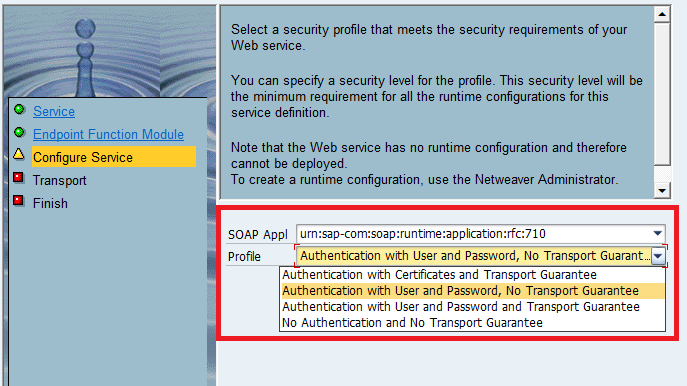


One RFC is created → Go to Utilities → More Utilities → Create Web Service → From Function Module

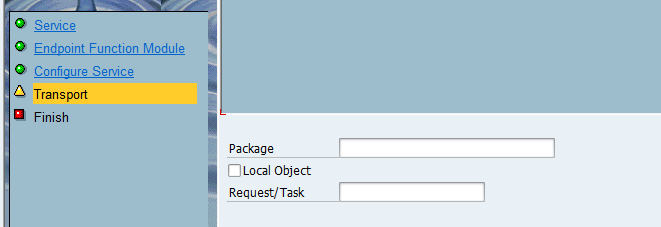
Enter Definition Name and Description → Continue



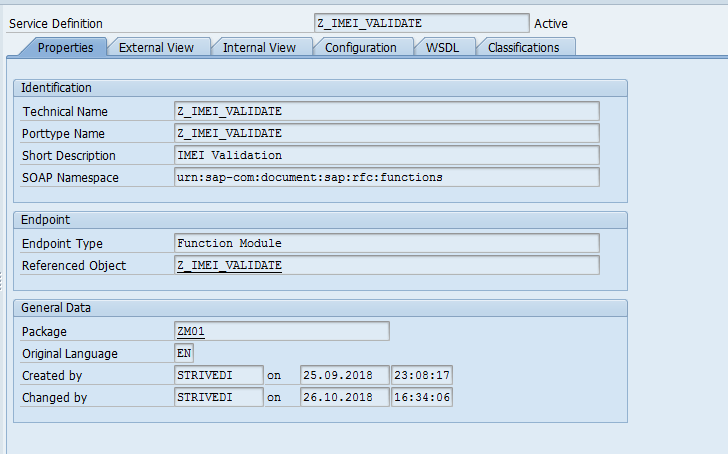
Here If we will select ‘No Authentication and No Transport Guarantee’ then User ID and Password needs to be maintained in SOAMANAGER (Credentials are required to hit SAP System) and the Service will become open to all which is not advised. Here I have selected ‘Authentication with User ID and Password and Transport Guarantee’.



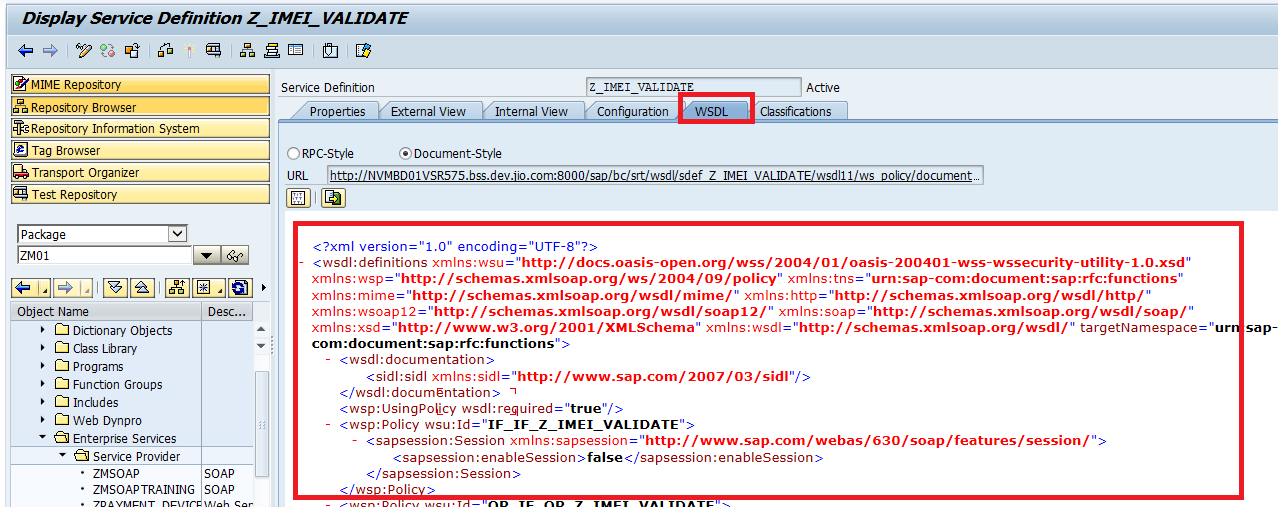
Provide Package & TR Details



Click on Next and Activate the Definition.



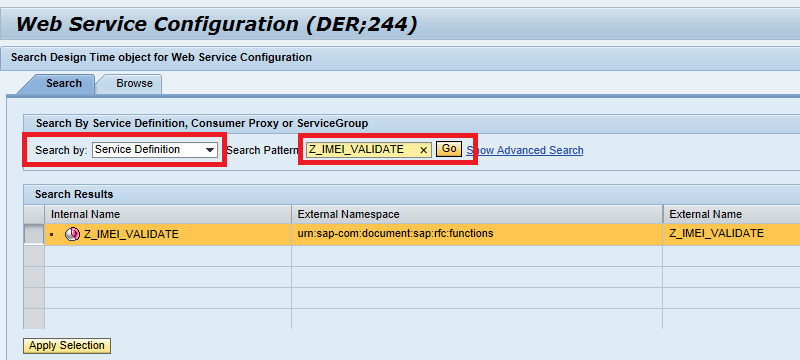
In WSDL Tab, we can see the file but it will not have the Endpoint and port details.



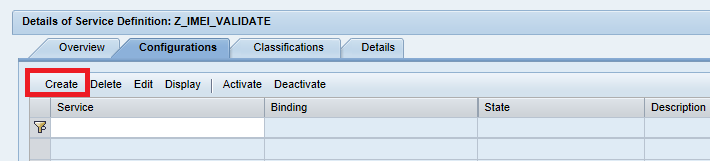
In Test Client, SOAMANAGER Configuration is required.

Go to the TCode: SOAMANAGER in Test client

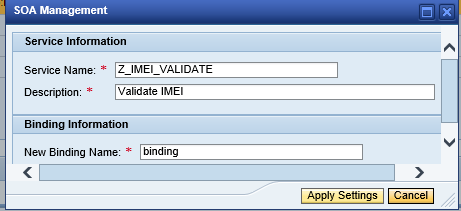
Select Service Definition → Enter Definition name: Z\_IMEI\_VALIDATE → Press Enter



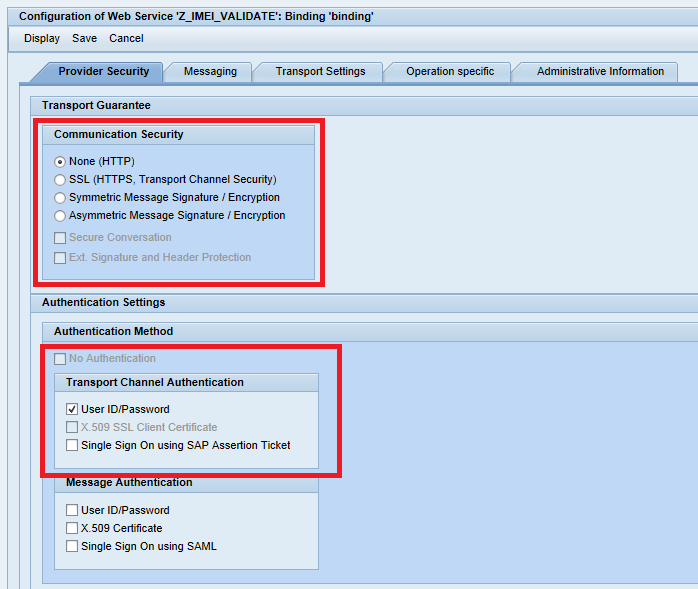
Go to Configuration tab → Click on Create



Enter Service Name & Description → Apply Settings

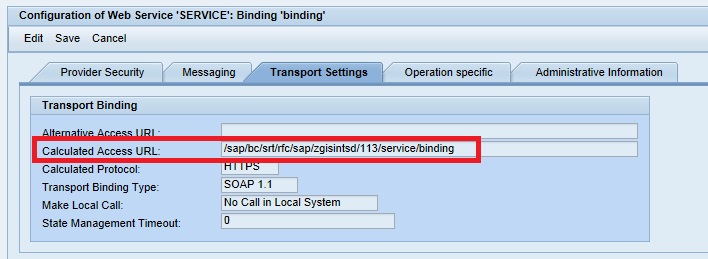


In Provider Security Tab: to provide HTTP request select ‘None’ and for HTTPS request select ‘SSL (HTTPS, Transport Channel Security)’ in Communication Security tab.

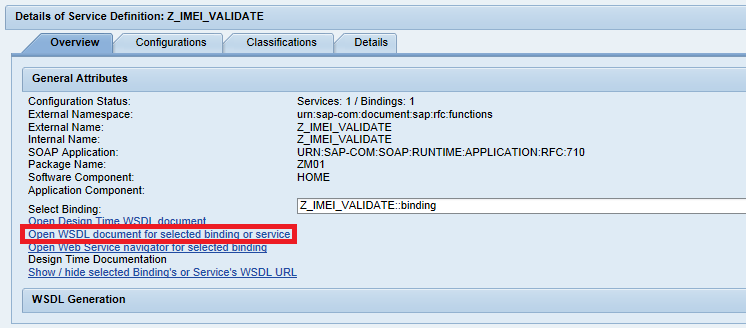


Then → Save

It will generate Calculated Access URL:



Now move to ‘Details of Service Definition’ → Click on ‘Open WSDL document for selected binding or service’ to get the WSDL file for the created Service from RFC.





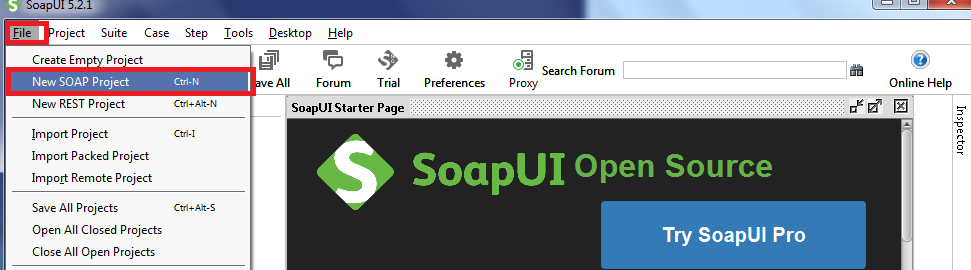
Scroll down for the Endpoint:



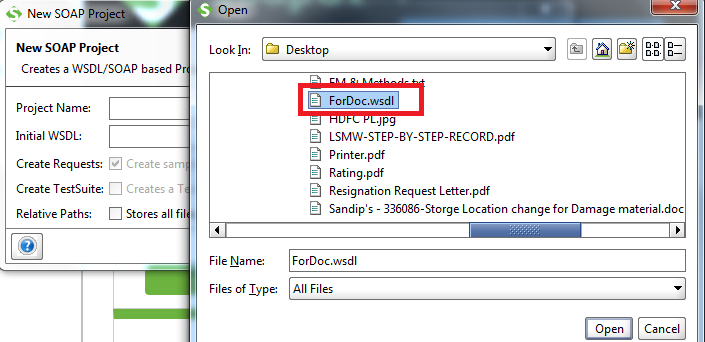
Save this WSDL file and before sending this WSDL to third party, it should be tested at our end.

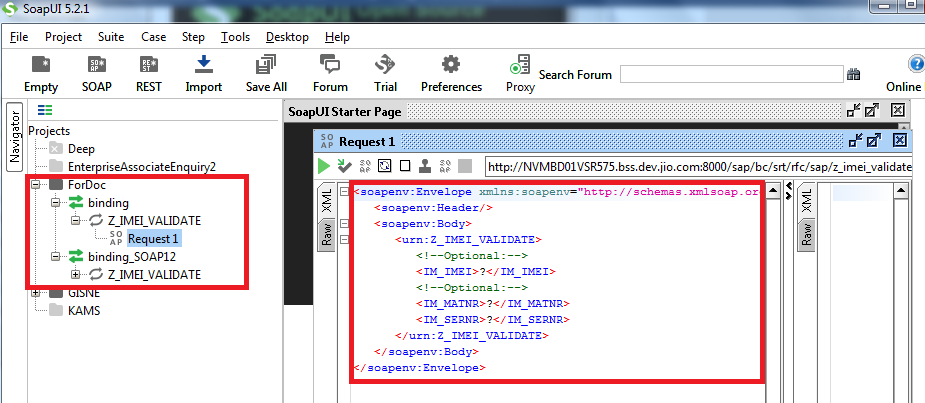
SoapUI can be used to test the WSDL File.

SoapUI → File → New SOAP Project

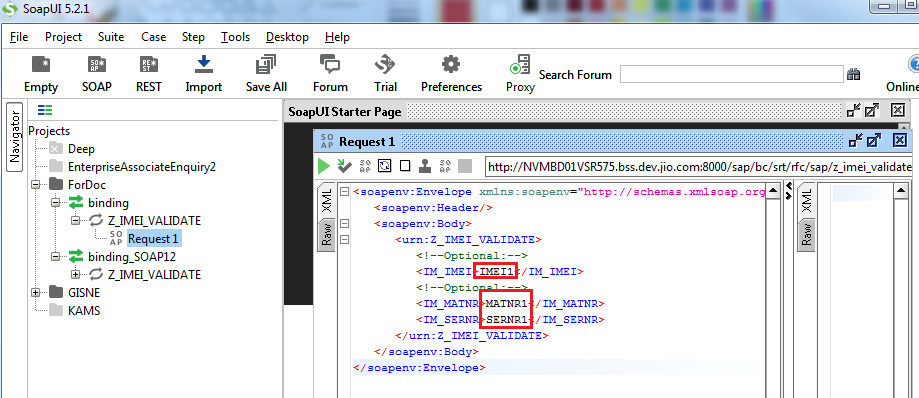


Browse and Select WSDL File





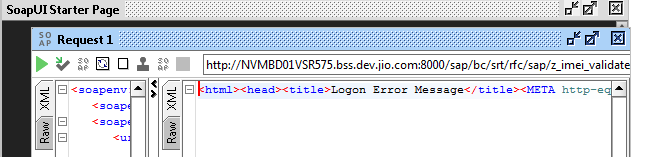
Enter the desired value



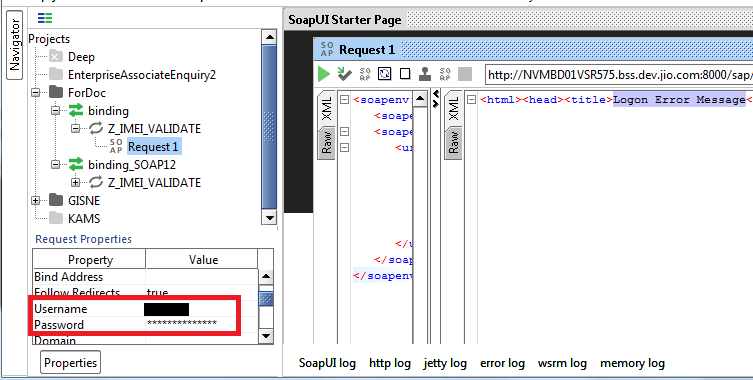
Execute



In Response, we got error message: Logon Error Message, because credentials are required to hit the SAP System.



Enter UserID and Password in Properties



Execute it again after providing the login details.

