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April 20, 2015 3 minute read

Copy Gateway Service from One server to another server using EDMX file

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When there is a requirement to copy a particular gateway service from one server to another server, the most time consuming part is to copy the data model manually by creating all the entities, entity sets, associations and navigation paths.

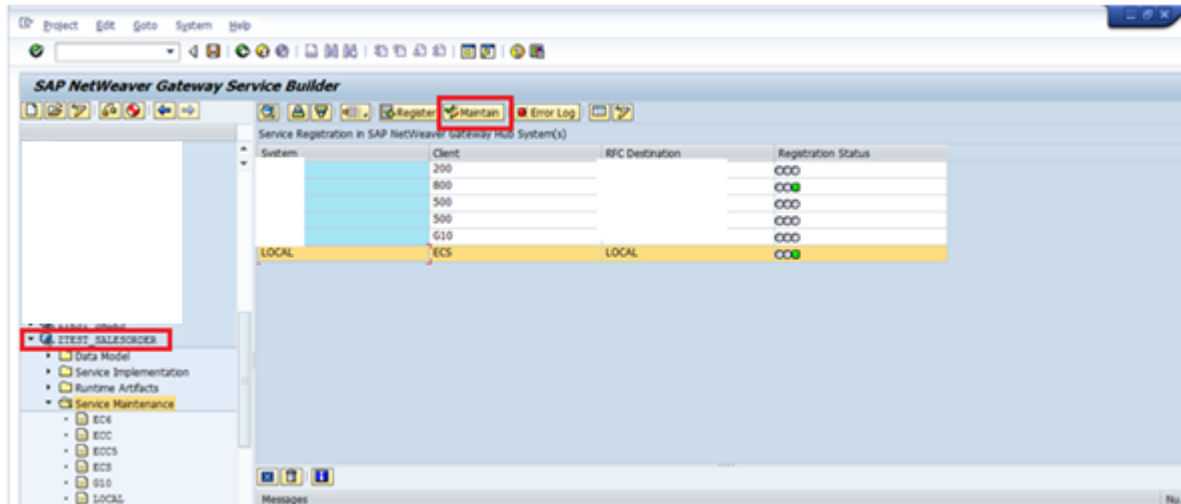
Now to overcome this big trouble, there is a better way given by SAP. There is an option called "Data Model From File".

The goal of this document is to provide the steps to use this option "Data Model from File".

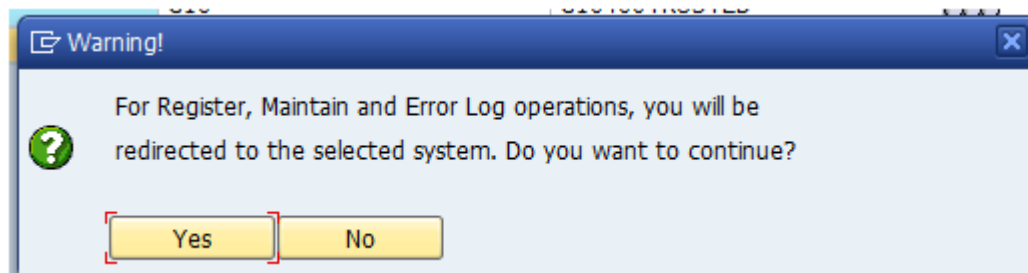
Steps:

1. Generate METADATA:

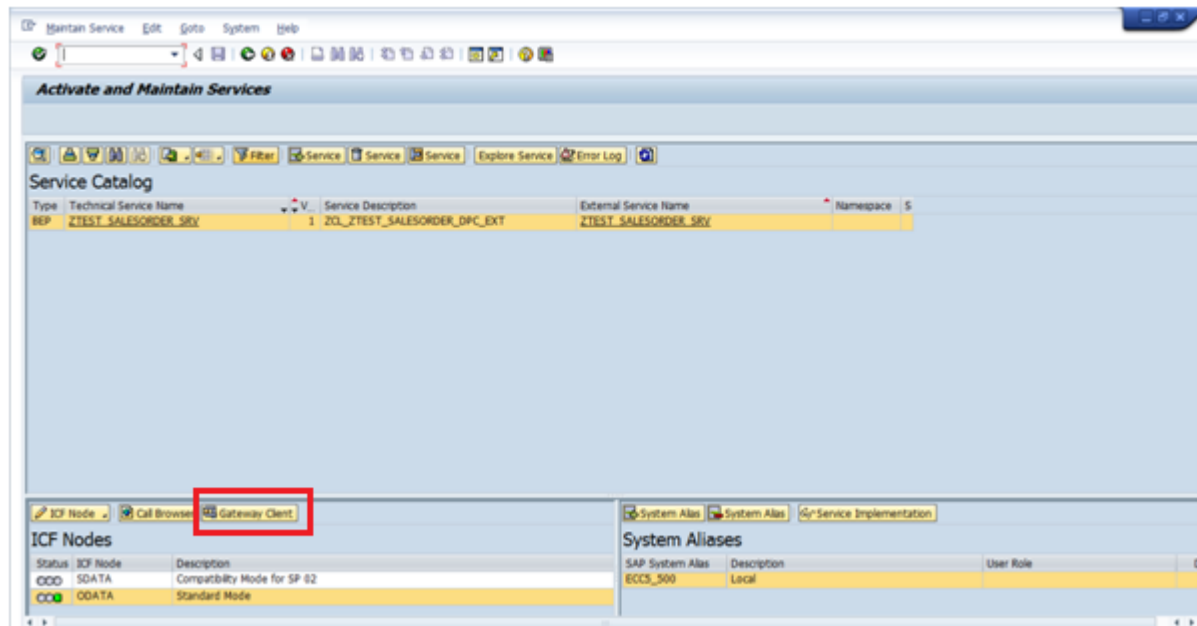
Suppose we want to copy the Gateway Service “ZTEST_SALESORDER”. Then first of all we have to generate the \$metadata of this service. For this we have to go to Service Maintenance and select the System for which the Service Registration has already been done. Then click the button “Maintain”.



This will give a pop-up message, click yes.

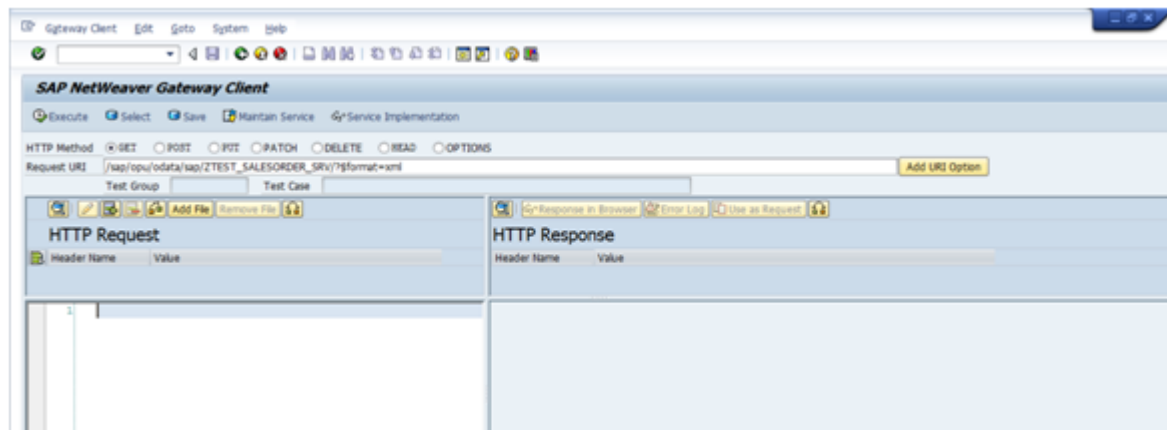


This will open the “Activate and Maintain Services” screen.



Here click on the button “Gateway Client”. This will open SAP NetWeaver Gateway Client screen.

To directly open SAP NetWeaver Gateway Client screen one can use the Tcode `/iwfnd/gw_client`

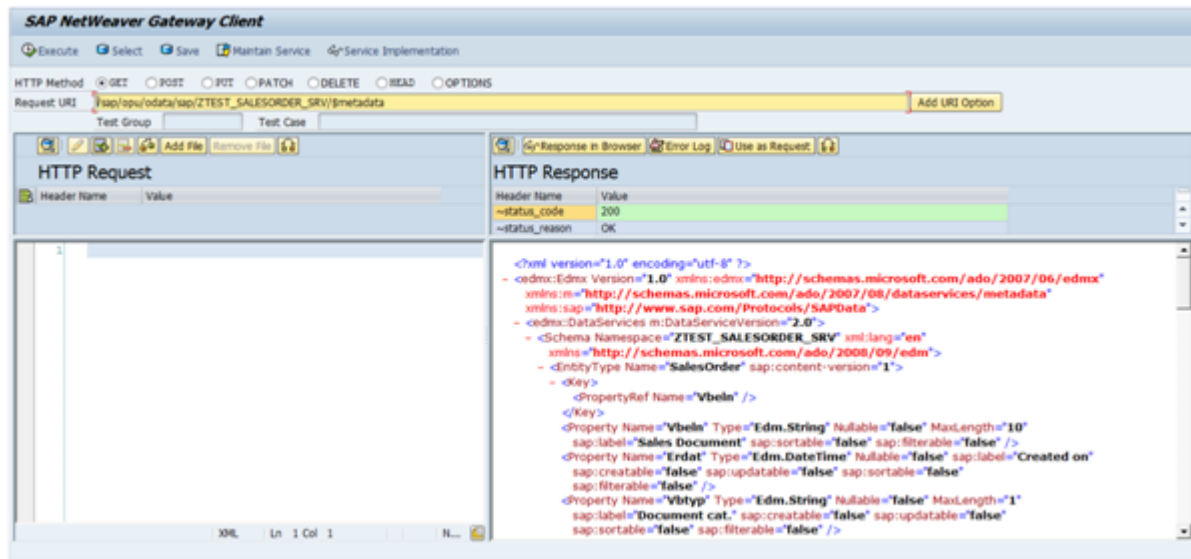


Now to get the METADATA add \$metadata at the end of the URI as below:

/sap/opu/odata/sap/ZTEST_SALESORDER_SRV/\$metadata

Click F8.

Now the entire METADATA of the data model will be displayed inside the HTTP response section.

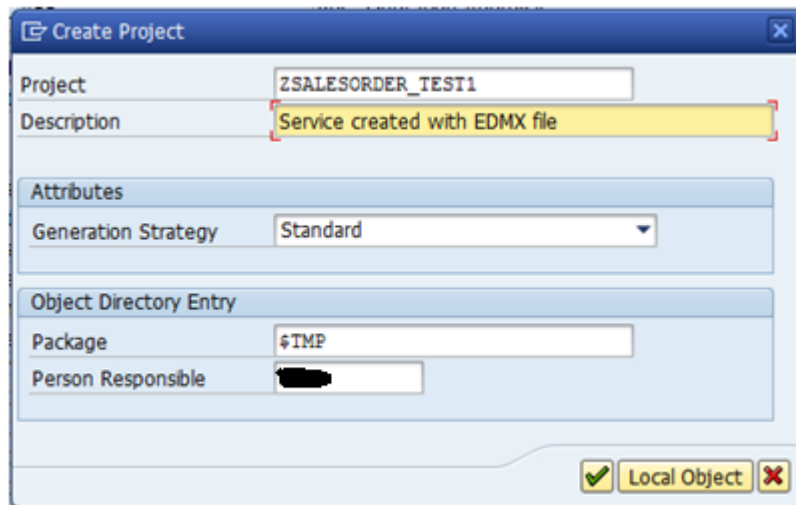


2. Create EDMX file

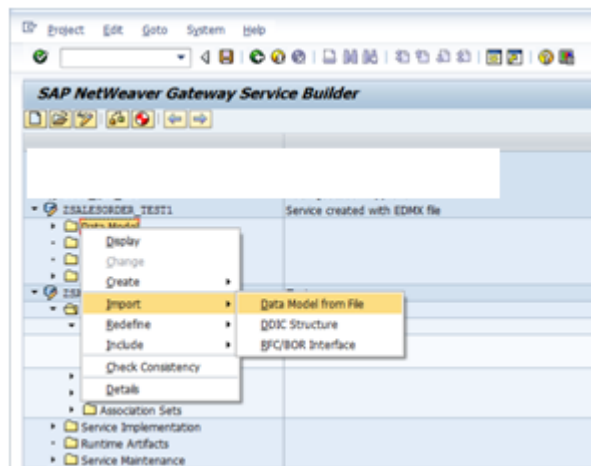
Copy the entire metadata from the previous step and paste it in a text file. After that save the text file with the extension .edmx

3. Use EDMX File to copy the data model into a new service

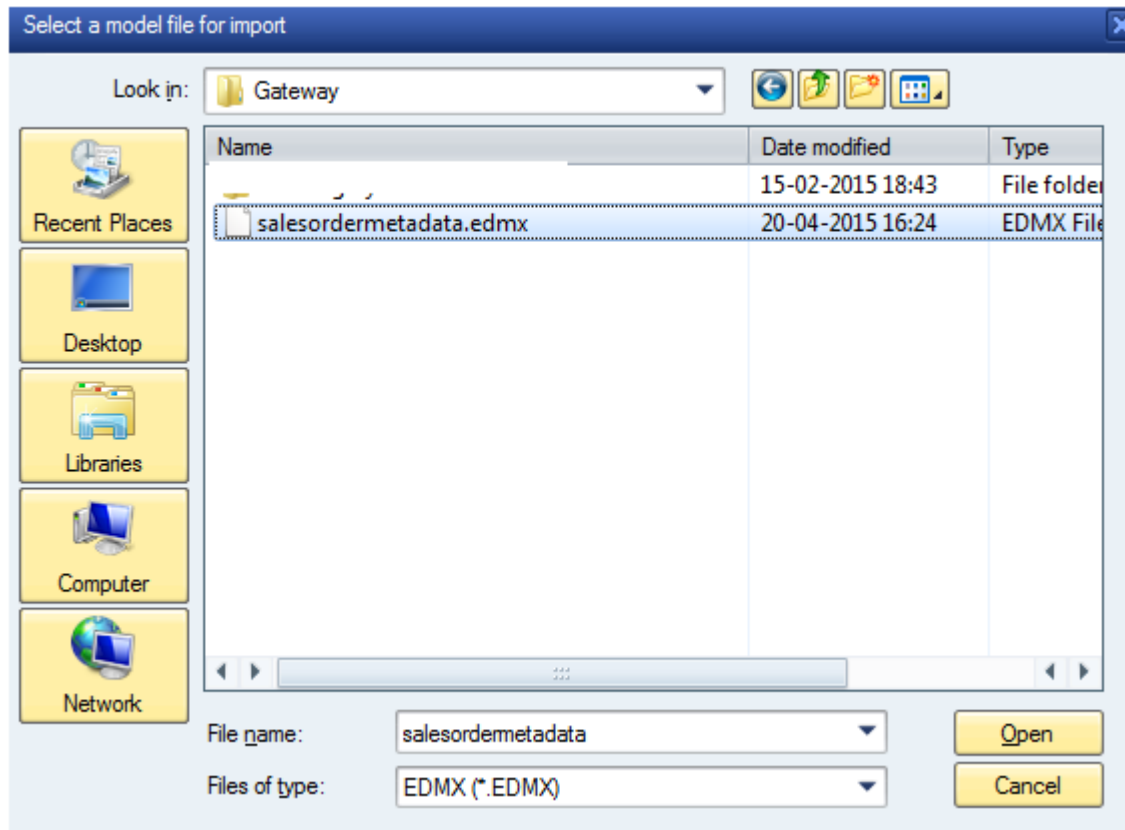
Now we will create a new Project from transaction SEGW (SAP NewtWeaver Gateway Service Builder).



Now right click on Data Model and select the option Import -> Data Model From File

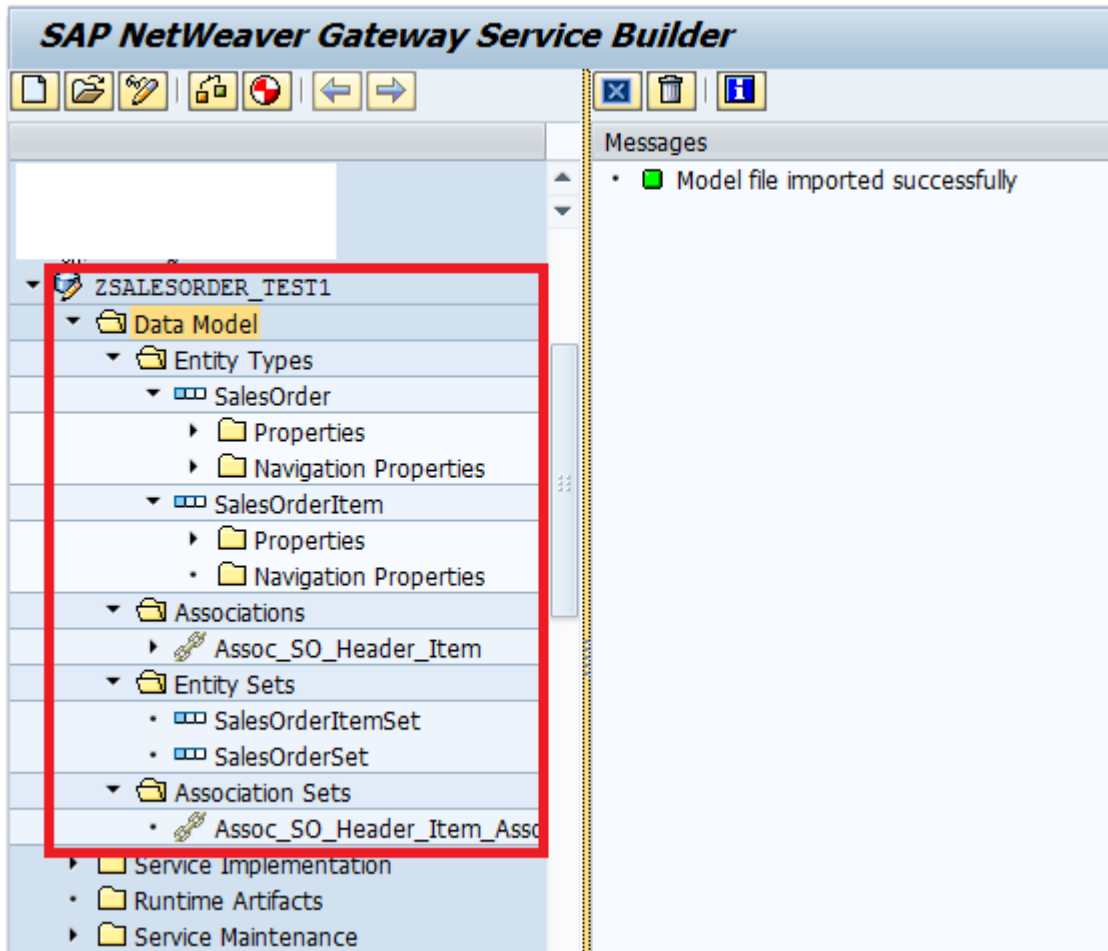


Chose the EDMX file that we have saved in the previous step.



Click "Open".

Now check the service in SEGW. All the entity, entity sets, associations, association sets, navigation paths are automatically copied into the newly created service.



After that the Runtime Objects can be generated for the service and accordingly the Service Implementations can be copied.

Appendix(Copy Standard Service):

Here in the above example I have considered a custom service to be copied. If you want to copy any standard service then you should follow the below steps to get the metadata of the service.

Open the TCODE `/iwfnd/maint_service`

This will display the entire service catalog of the system. Select the one that you want to copy from the service catalog and then click on the button Gateway Client.

Activate and Maintain Services

Service Catalog

Type	Technical Service Name	V	Service Description	External Service Name	Namespace	S
	/IWFND/SG_MGW_NOTIFY_STORE	1	ODATA Channel: Notification Store	NOTIFICATIONSTORE	/IWFND/	
BEP	ZPAGE_BUILDER_CONF	1	Pagebuilder - Configuration level	PAGE_BUILDER_CONF	/UI2/	
BEP	ZPAGE_BUILDER_CUST	1	Pagebuilder - Customizing level	PAGE_BUILDER_CUST	/UI2/	
BEP	ZPAGE_BUILDER_PERS	1	Pagebuilder - Personalization level	PAGE_BUILDER_PERS	/UI2/	
	/IWFND/EPM_PRODUCTS	1	Consumption Model for NW Demo Model Product	PRODUCT	/IWFND/	
BEP	ZPURCHASEORDER59927	1	Purchase Order Meta Data	PURCHASEORDER59927		
	/IWCNT/SG_REPORTING	1	Service Document for Reporting Management	REPORTING	/IWCNT/	
BEP	/IWFND/SG_SAMPLE_RMT_SFIGHT	1	OData Channel - Reference SFight Data Provider	BMTSAMPLEFLIGHT	/IWFND/	
BEP	ZBMTSAMPLEFLIGHT_2	1	OData Channel - Reference SFight Data Provider	BMTSAMPLEFLIGHT_2	/IWBEP/	
BEP	ZSALESORDER	1	SALESORDER	SALESORDER		
	/IWFND/SG_EPM_SALESORDER	1	Service for NW Demo Model Sales Order	SALESORDER	/IWFND/	
BEP	ZSALESORDER_TEST	1	my assignment	SALESORDER_TEST		
BEP	ZSALESORDERXX	1	metadata	SALESORDERXX		
BEP	ZSALESORDERXX	1	SALESORDER	SALESORDERXX		
BEP	ZSALESORDERXX_1	1	SALESORDERXX_1	SALESORDERXX_1		

ICF Nodes

Status	ICF Node	Description
OOO	SDATA	Compatibility Mode for SP 02
OOO	ODATA	Standard Mode

System Aliases

SAP System Alias	Description
LOCAL	FOR local Objects and developments

After that please follow the previously discussed steps.

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Assigned tags

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' Pavan ' Golesar

October 27, 2015 at 11:57 am

Helpful !

Was Searching for this. 🤔

Thanks

–PavanG

Like (0)



vivek gaurav

October 28, 2015 at 7:33 am

Nice process but it does not copy business logic of DPC class.

Like (0)



Ankit Jain

June 13, 2016 at 9:12 am

Hi,

How to create edmx file from txt file?

I'm not getting the file type .edmx in my system.

Leads are appreciated..

Regards,

A J

Like (0)



Sean Machado

February 3, 2017 at 11:28 pm

This is great, but I would like to make one comment.

Copying the metadata and pasting into a file which we would then rename with an EDMX extension did not work for us.

Instead, we right-clicked in the HTTP Response preview screen and selected "Select All". Then we right-clicked again to "Save Target as". When the "Save As" prompt popped up, we changed the Save As Type from XML to All Files. Then we made sure the File name had the EDMX file extension.

Then it imported fine for us.

Regards,

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