Test OData Service using SAP Gateway Client

- 1. Design / Prototype
- 2. Create Dictionary Objects
- 3. Create Interface View (CDS)
- 4. <u>Business Object Generation (CDS Object Model Annotations)</u>
- Generated Business Object
- 6. <u>BOPF Development</u>
 - Determination
 - Validation
 - Action
 - Alternative Key
- 7. Test BOPF Object using BOBT
- 8. Access Control (CDS)
- 9. Consumption View (CDS)
- 10. OData Service Generation and Registration
- 11. Test OData Service using SAP Gateway Client
- 12. <u>UI development</u>

Activities

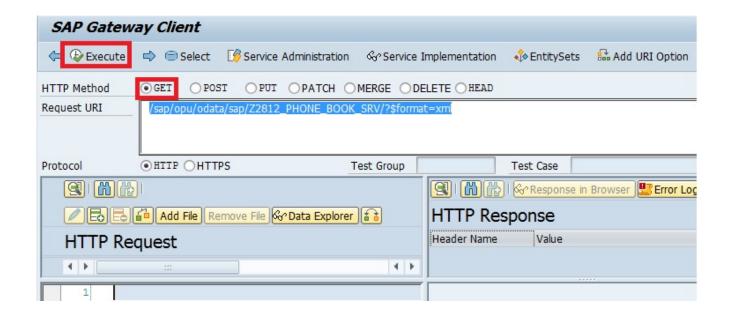
- Accessing Gateway Client
- Read an Entity
- Update an Entity
- Create an Entity

Accessing Gateway Client

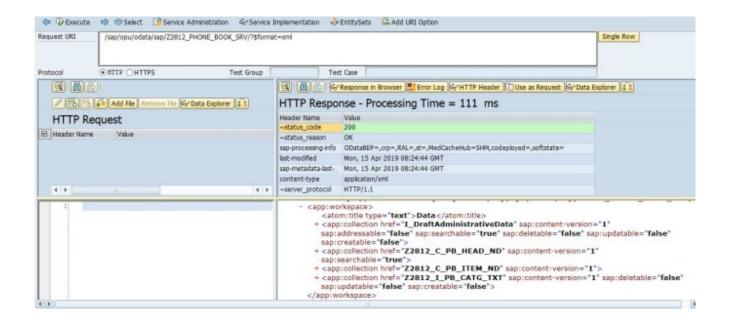
- 1. From Service Implementation view of SEGW project. Select the service and click on SAP Gateway Client
- From Gateway Service Activate and Maintenance Screen (/IWFND/MAINT_SERVICE), select the service, select the ICF Node and click on SAP Gateway Client
- 3. Go to transaction /IWFND/GW_CLIENT

If you navigate to gateway client from gateway builder or service maintenance then, service link will be auto-populated in **Request URI**. If you directly access using transaction, then it will show the last request used by you. You can select service using the **SELECT** option from the toolbar.

Execute the GET method for service link directly without any entity set or metadata option.



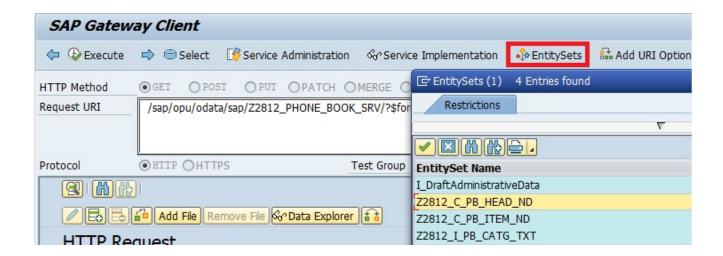
As a result it will display the list of Entity Sets for that particular service.



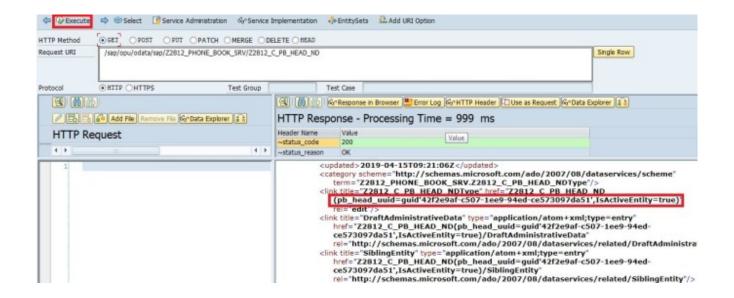
<< Activities

Read

If Service link is already mentioned in Request URI, then click on **Entity Sets** and select the set that you want to read.



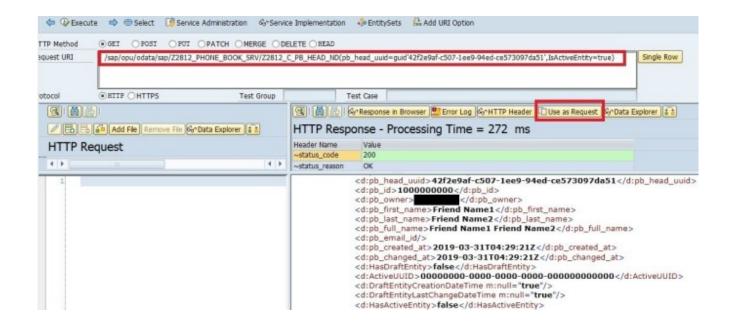
Execute the selected service and entity set using the **GET** method. It will display the list of **entities**. Each entity is represented by *XML tag* **<entry**>. Link to the specific entity can be seen as value for "**href**" within *XML tag* **link**>, copy that and use it with the entity set link. Alternatively, you can find complete URL in *XML tag* **<id**>.



Execute the whole entity link with **GET** method. It will display the entity details.

Example:

/sap/opu/odata/SAP/Z2812_PHONE_BOOK_SRV/Z2812_C_PB_HEAD_ND(pb_head_uuid=guid'42f2e9af-c507-lee9-94ed-ce573097da51',IsActiveEntity=true)

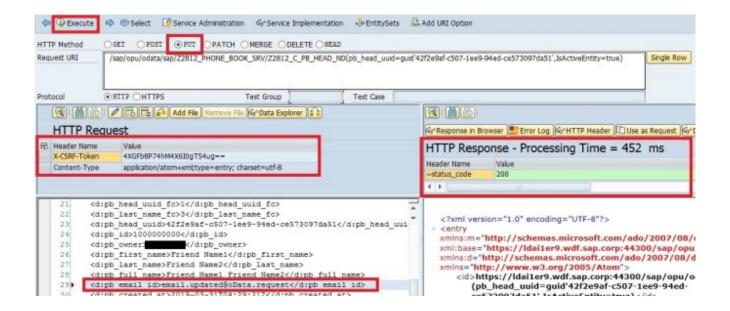


<< Activities

Update

- 1. First, read the entity you want to update.
- Next, click on option 'Use as Request' on the HTTP response side. It will result in
 - Copying of the response body to the HTTP Request window.

- And header attributes such as X-CSRF-Token and Content-Type
- 3. Update the new value to the required field tag.
- 4. Select the PUT method and click on Execute
- 5. Data will be updated.



Updated data for the processed entity

Group description	Cell Content
Client	600
Key	42F2E9AFC5071EE994EDCE573097DA51
Phone Book ID	100000000
Created By	
First Name	Friend Name1
Last Name	Friend Name2
Email Address	email.updated@oData.request
Created at	20.190.331.042.921
Changed at	20.190.415.093.930

<< Activities

Create

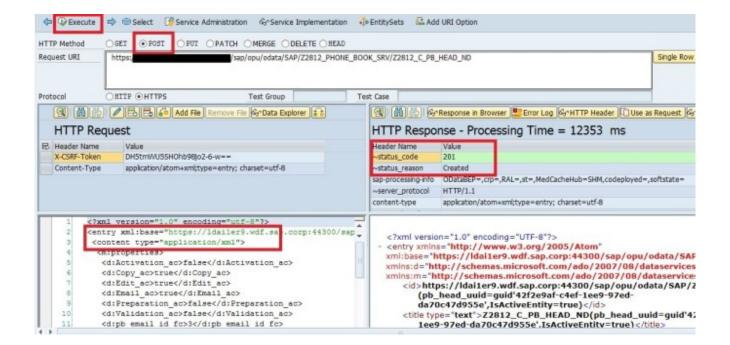
- 1. First, read the entity you want to update.
- Next, click on option 'Use as Request' on the HTTP response side. It will result in
 - Copying of the response body to the HTTP Request window.
 - And header attributes such as X-CSRF-Token and Content-Type
- 3. Delete all the reference to the copied entity, between <entry> and <content> tag.
- 4. Provide initial and new values to required fields tag.

- 5. Select **POST** method and click on **Execute**
- 6. The record will be created in DB.

Sample request for Creation.

I have removed my host-name with <hostname> in <entry> tag (sensitive data) In general, no action is required for this as request body is copied from the response.

```
<?xml version="1.0" encoding="utf-8"?>
<entry
xml:base="https:<hostname>/sap/opu/odata/sap/Z2812 PHONE BOOK
                   xmlns="http://www.w3.org/2005/Atom"
xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservices
/metadata"
xmlns:d="http://schemas.microsoft.com/ado/2007/08/dataservices
 <content type="application/xml">
  <m:properties>
   <d:Activation ac>false</d:Activation ac>
  <d:Copy ac>true</d:Copy ac>
   <d:Edit ac>true</d:Edit ac>
   <d:Email ac>true</d:Email ac>
   <d:Preparation ac>false</d:Preparation ac>
   <d:Validation ac>false</d:Validation ac>
   <d:pb email id fc>3</d:pb email id fc>
   <d:pb first name fc>3</d:pb first name fc>
   <d:pb head uuid fc>1</d:pb head uuid fc>
   <d:pb last name fc>3</d:pb last name fc>
<d:pb head uuid>00000000-0000-0000-0000-000000000000/d:pb hea
d uuid>
   <d:pb id>0000000000</d:pb id>
   <d:pb owner>Gateway</d:pb owner>
   <d:pb first name>oData</d:pb first name>
   <d:pb last name>Create</d:pb last name>
   <d:pb full name>Create oData</d:pb full name>
   <d:pb email id>email.created@oData.reguest</d:pb email id>
   <d:pb created at>2019-04-15T00:00:01Z</d:pb created at>
   <d:pb changed at>2019-04-15T00:00:01Z</d:pb changed at>
```



New entry created in DB

Client	Cell Content
Client	600
Key	42F2E9AFC4EF1EE997EDDA70C47D955E
Phone Book ID	100000013
Created By	
First Name	oData
Last Name	Create
Email Address	email.created@oData.request
Created at	20.190.415.110.841
Changed at	20.190.415.110.841

<< Activities

Delete

- 1. First, read the entity you want to update.
- Next, click on option 'Use as Request' on the HTTP response side. It will result in
 - Copying of the response body to the HTTP Request window.
 - And header attributes such as X-CSRF-Token and Content-Type
- 3. Select the **DELETE** method and click on **Execute**
- 4. The record will be deleted.

<< Activities

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