





## People matter, results count.

For internal use only DAY - 2A

### **SAP Gateway**

#### Day III Agenda

- Hands on CRUDQ operations (Code Based Technique)
- How to Redefine methods at MPC and DPC level
- Function Import
- How to display messages in HTTP responses & Header

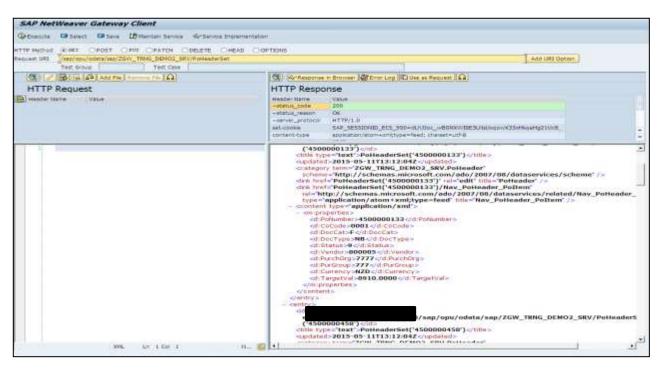
## **Read Operation**

**GWI-EO:GWI-EO-03** 

Case 1: Fetch the list of purchase orders

Method to be implemented : PoHeaderSet\_Get\_EntitySet

Service URI: /sap/opu/odata/sap/ZGW\_TRNG\_DEMO2\_SRV/PoHeaderSet





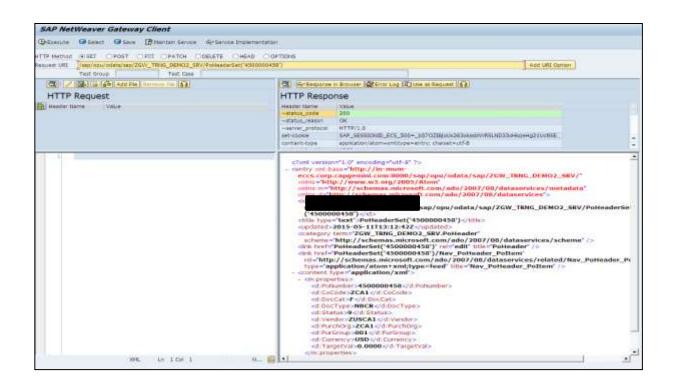
## **Read Operation (Cont..)**

**GWI-EO:GWI-EO-03** 

Case 2: Fetch the details of a specific purchase order

Method to be implemented : PoHeaderSet\_Get\_EntitySet

Service URI: /sap/opu/odata/sap/ZGW\_TRNG\_DEMO2\_SRV/PoHeaderSet('4500000458')





### **Create**

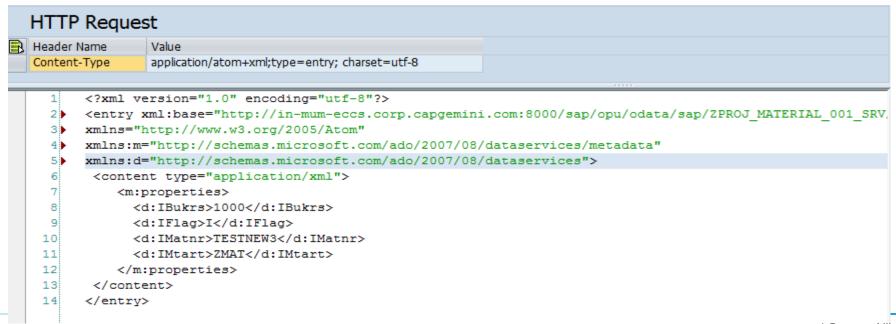
Create Operation:

We can send the request payloads in both XML and JSON formats.

Sample Request URI and Payload

URI: /sap/opu/odata/sap/ZGW\_TRAINING\_NITIN1\_SRV/MatSet

**HTTP Method: POST** 



### **Update**

Update Operation:

We can send the request payloads in both XML and JSON formats. Sample Request URI and Payload

URI: /sap/opu/odata/sap/ZGW\_TRAINING\_NITIN1\_SRV/MatSet(IFlag='U',IMatnr='TESTNEW1')

HTTP Method: PUT

```
HTTP Request
Header Name
                  Value
                  application/atom+xml;type=entry; charset=utf-8
   Content-Type
          <?xml version="1.0" encoding="utf-8"?>
         <entry xml:base="http://in-mum-eccs.corp.capgemini.com:8000/sap/opu/odata/sap/ZPROJ MATERIAL 001 SRV/"</pre>
         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:IBukrs>3000</d:IBukrs>
                <d:IFlag>I</d:IFlag>
    10
                <d:IMatnr>TESTNEW1</d:IMatnr>
                <d:IMtart>ZMAT</d:IMtart>
              </m:properties>
           </content>
          </entry>
```



#### **\*** Function Import

OData supports further service operations (function imports) that can be invoked by the HTTP methods GET or POST for anything that cannot be mapped to the standard CRUD operations. You can implement such additional service operations in the Service Builder by creating function imports within your data model.

**HTTP Method:** GET/POST

<u>Note</u>: While it is simple to create new function imports to invoke custom operations, if the operation you want to use can be invoked using a standard CRUD operation, you should not create a function import.



**GWI-EO:GWI-EO-02** 

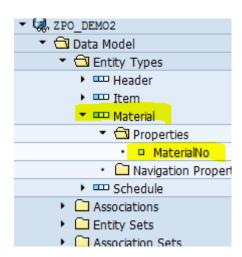
#### Function Import example:

https://help.sap.com/saphelp\_nw74/helpdata/en/c5/dc22512c312314e10000000a44176d/content.htm

We will consider material validation example here.

Create a project in SEGW

Create an entity type name material with the following properties





**GWI-EO:GWI-EO-02** 

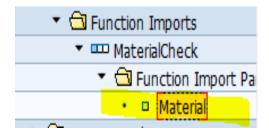
#### **Function Import example:**

We only need one property i.e. material number here as we will send back only material number if it is valid.

Right click on function imports->Create -> Enter the following properties

Create an import parameter for the function import:







**GWI-EO:GWI-EO-02** 

Test from GW client with the URI:

**URI**:

/sap/opu/odata/sap/ZPO\_DEMO2\_SRV/MaterialCheck?Material='986'

