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Simple Step-by-Step SAP-Gateway Service Guide

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Hi All,

Finally thought of writing blog after struggling to create simple o-data service to perform basic operations including media and deep entities.

So I don't want you all to struggle and waste your time...

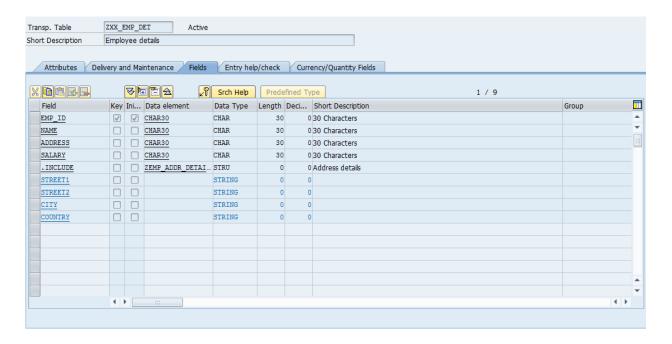
This is for Beginners not for Experts 🤢 ,

Create your simple gateway service by following provided steps.

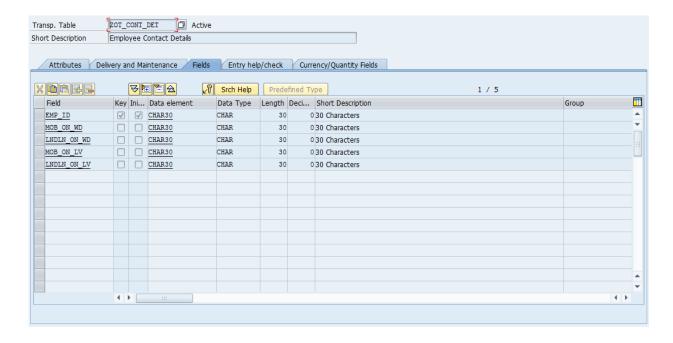
Service is all about Employee Information System.

Tables Used.

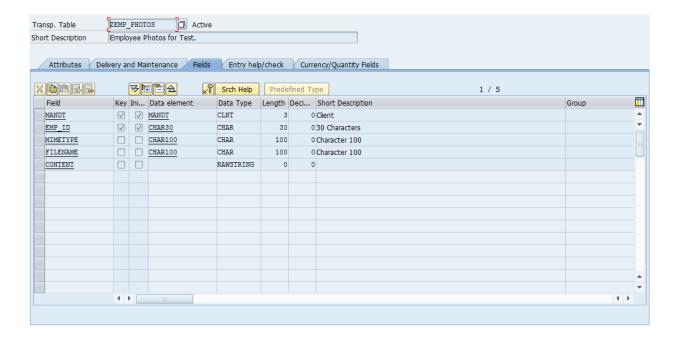
1. Employee Details table[Principle data]Or[Header Information]



2. Employee Contact details (Ph no on working days and on leave) [Line Item]

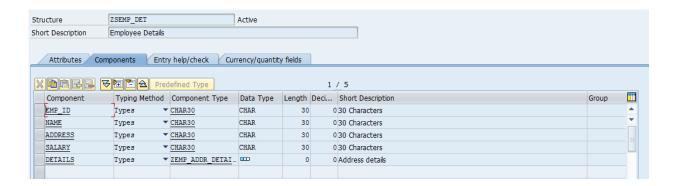


3. Employee Photo Details.

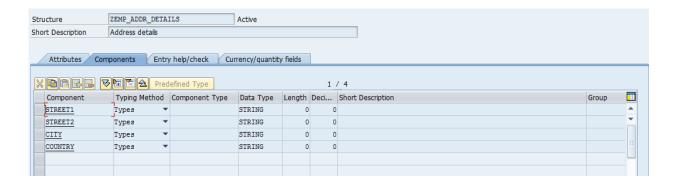


[But U can directly use Database tables to include structure to create Data types]

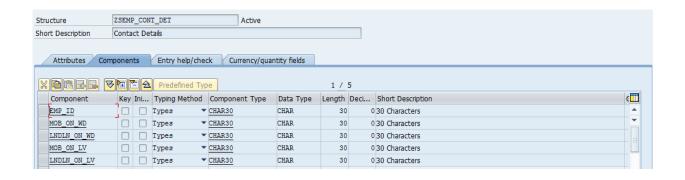
1. Employee Details.



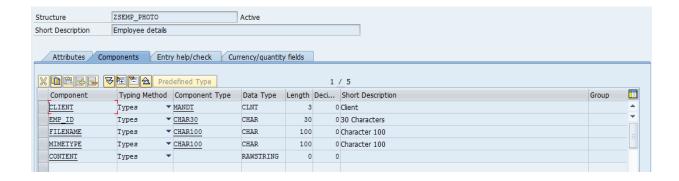
2. Employee Address Info[Include structure in Emp Details table].



3. Employee Contact details(Info like Contact no during working days and on leave).



4. Employee Photo details.



Lets start rocket science 😝 ,

Here we go,

Create your simple gateway service, following provided steps.

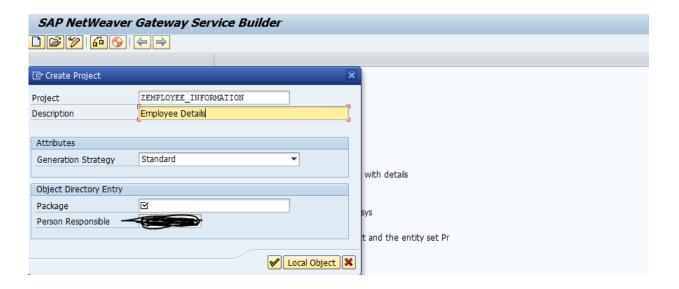
using table and structure list below with Project Details.

- 1. Log onto the SAP NetWeaver Gateway system.
- 2. Open transaction SEGW.

- 3. The SAP NetWeaver Gateway Service Builder opens.
- 4. Create a new project.



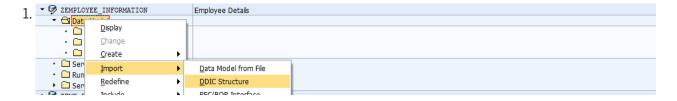
5. Enter project name and meaningful description.



Your project is created,

Entity Type

6. Right click on the Data Model folder and select Import DDIC Structure .



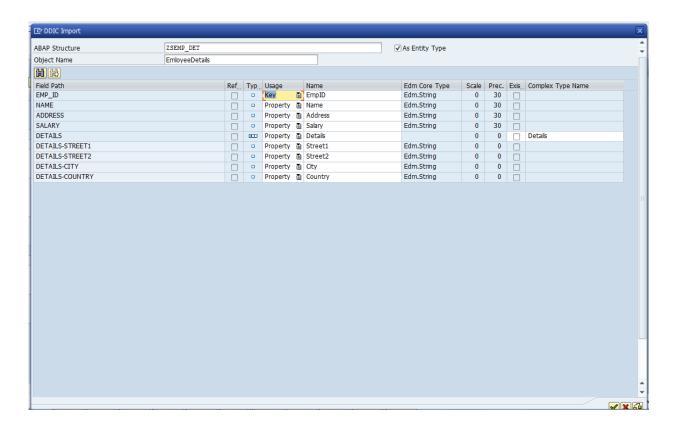
7. Following window will appear, In ABAP Structure field

You can import the following DDIC structures

into the Service Builder:

- Views
- Database tables
- Structures
- 8. Press enter below window will appear,
- 9. Select at-least one key or more than one keys according to requirement in Usage column.
- 10. You can directly create complex types by adding

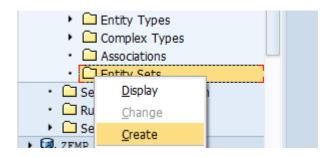
Deep structure (Structure within structure).



Entity Set

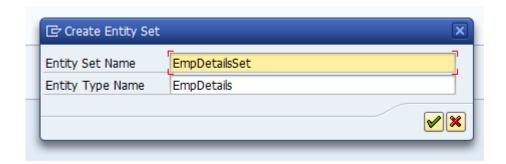
11. Create Entity set for each Entity type.

Right click on Entity sets->select create



12. Press F4 on Entity type field and select entity type,

Enter Entity Set name click okay,



13. Create Entity Sets for each entity type.

Association.

14. If you have Header Entity[Principal or Parent]

and LineItem Entity[Dependent Information]

Or

If you want to create Relationship between 2 entities

Ex: Purchase Order header and Line Items.

Or

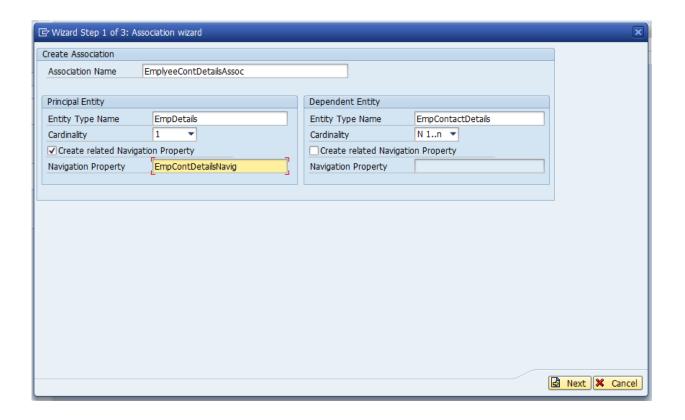
Ex: Employee Details[Main] like id and name and Employee

15. Right click on Association->create

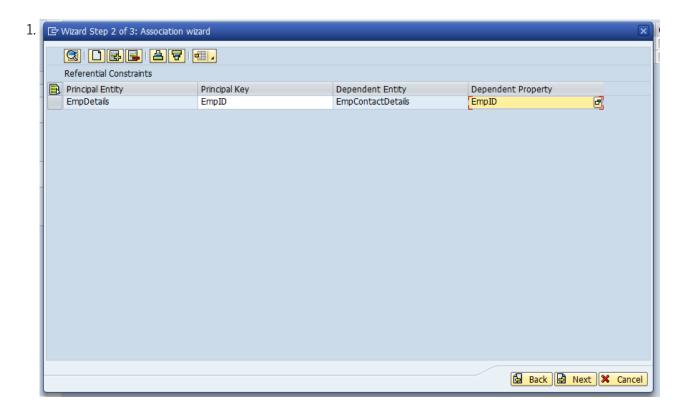


- 16. Enter the Association name,
- 17. Press F4 on Entity Type name and select Parent[Header Info]

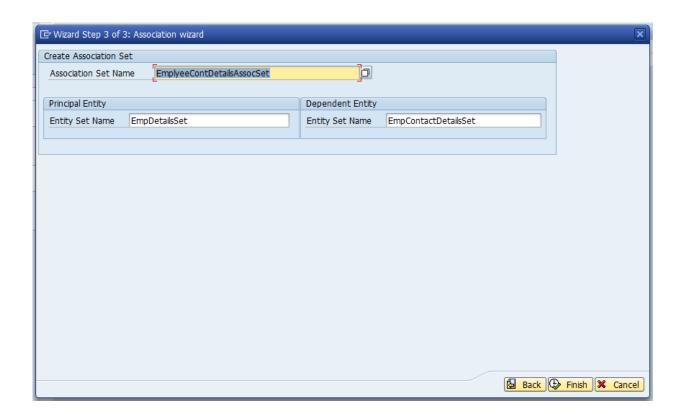
 Entity type.
- 18. Specify proper cardinality between entity types.
- 19. Specify Navigation Property name[This will be used in URL to navigate from parent to child and child to parent, In our case its only from parent to child] .



- 20. Click next.
- 21. Press F4 on Dependent property select the key field which is common among both.
- 22. Click next.



- 23. Check Entries are proper.
- 24. Click Finish,



Once after creating Entity Types, Entity Sets, Associations, Navigation Properties.

Your Project View look like this.

Project Details

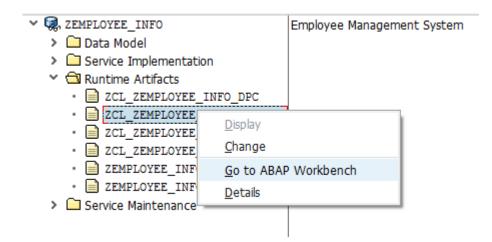




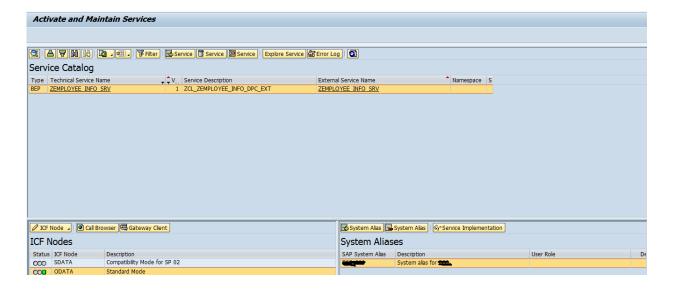
1. Click on Generate Runtime objects.



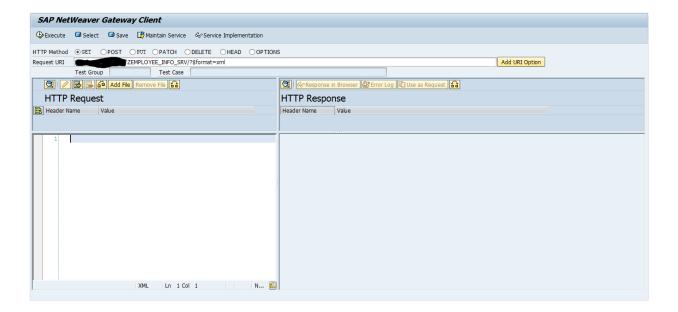
- 2. Expand Runtime artifacts.
- 3. Right click on Class which ends with DPC EXT and select Go to ABAP Workbench.



- 4. Redefine the methods which mentioned below.
- 5. Paste the code[Put break-point if u want to check behavior of methods called based on URL].
- 6. Expand Service maintenance.
- 7. Right click on system in which you created these objects.
- 8. Click on Register and select proper System in RFC System alias.
- 9. Right click again on Selected system and click maintain.
- 10. Pop up will appear asking for redirection Click Yes.
- 11. Click on Gateway Client.



- 12. Click Execute to test.
- 13. Status 200 shows service is created correctly.
- 14. Paste URL in Requested URI field and Click Execute. Check respective methods by keeping breakpoints as given below.



```
15. Click Execute to test.
     Status 200 shows service is created correctly.
     16. Paste URL in Requested URI field and Click Execute.
     17. Check respective methods by keeping breakpoints as given below.
READ.
URL:
To get single record.
     ----/sap/ZEMPLOYEE_INFO_SRV/EmpDetailsSet(EMP_ID='1')
METHOD empdetailsset get entity.
DATA: ls_key_tab TYPE /iwbep/s_mgw_name_value_pair,
ls_emp_tab TYPE zxx_emp_det.
READ TABLE it key tab INTO ls key tab WITH KEY name = 'EMP ID'.
SELECT SINGLE * FROM zxx_emp_det INTO ls_emp_tab WHERE emp_id = ls_key_tab-value.
IF sy-subrc = 0.
MOVE-CORRESPONDING ls_emp_tab TO er_entity.
MOVE-CORRESPONDING ls_emp_tab TO er_entity-details.
ENDIF.
ENDMETHOD.
```

SUCCESS CODE: 200

URL:

To get all records from table respect to EntitySet.

```
----/sap/ZEMPLOYEE_INFO_SRV/EmpDetailsSet
```

To get records based on where condition.

```
----/sap/ZEMPLOYEE_INFO_SRV/EmpDetailsSet?$filter=EMP_ID eq '1'
```

We can add more conditions using & Operator in between fields.

SUCCESS CODE: 200

CREATE

Steps:

- 1. 1.Get any record from GET_ENTITY ..
- 2. 2. After getting click on Use as request.
- 3. 3. Change details what you want to create in left window.
- 4. 4. Check POST method of HTTP.
- 5. 5.Use URL..

----/sap/ZEMPLOYEE_INFO_SRV/EmpDetailsSet

```
method ZEMPDETSTRSET_CREATE_ENTITY.

DATA: ls_emp_details TYPE zxx_emp_det.

"Get the created entity here

io_data_provider->read_entry_data( IMPORTING es_data = er_entity ).

MOVE-CORRESPONDING er_entity TO ls_emp_details.

MOVE-CORRESPONDING er_entity-details TO ls_emp_details.

INSERT zxx_emp_det FROM ls_emp_details
endmethod.
```

SUCCESS CODE: 201

UPDATE

To Update the Record.

Follow same steps as for CREATE_ENTITY.

Just Change URL and Check HTTP PUT Method.

A. URL.

```
----/sap/ZEMPLOYEE_INFO_SRV/EmpDetailsSet(EMP_ID='1')
```

But on response body nothing will be displayed..

For that we need to call get entity internally.

```
method EMPDETAILSSET_UPDATE_ENTITY.
DATA: ls_emp_details TYPE zxx_emp_det.

"Get the created entity here
io_data_provider->read_entry_data( IMPORTING es_data = er_entity ).

MOVE-CORRESPONDING er_entity TO ls_emp_details.

MOVE-CORRESPONDING er_entity-details TO ls_emp_details.

MODIFY zxx_emp_det FROM ls_emp_details.

endmethod.
```

SUCCESS CODE: 204

DELETE

To delete record Follow same steps for create.

Check http method DELETE.

URL.

```
----/sap/ZEMPLOYEE_INFO_SRV/EmpDetailsSet(EMP_ID='1')
```

```
method EMPDETAILSSET_DELETE_ENTITY.

DATA: ls_key_tab TYPE /iwbep/s_mgw_name_value_pair,
ls_emp_details TYPE zxx_emp_det.

READ TABLE it_key_tab INTO ls_key_tab WITH KEY name = 'EMP_ID'.
IF sy-subrc = 0.
ls_emp_details-emp_id = ls_key_tab-value.

DELETE zxx_emp_det FROM ls_emp_details.
ENDIF.
endmethod.
```

SUCCESS CODE: 204

DEEP READ

A. URL.

```
----ZEMPLOYEE_INFO_SRV/EmpDetailsSet(EMP_ID='1')/?$expand=EmpContDetailsNavig
```

```
METHOD /iwbep/if_mgw_appl_srv_runtime~get_expanded_entity.
DATA:
       ls_key_tab
                         TYPE /iwbep/s_mgw_name_value_pair,
ls_emp_tab
           TYPE zxx_emp_det,
ls empadd TYPE zot cont det.
DATA: ls expand tech_clauses LIKE LINE OF et_expanded_tech_clauses.
DATA: BEGIN OF 1s expand.
INCLUDE TYPE zcl_zemployee_info_mpc=>ts_empdetails.
DATA: empcontdetailsnavig TYPE STANDARD TABLE OF zcl zemployee info mpc=>ts empcontactdetails WITH DEFAULT KEY.
DATA: END OF 1s expand.
READ TABLE it_key_tab INTO ls_key_tab WITH KEY name = 'EMP_ID'.
SELECT SINGLE * FROM zxx_emp_det INTO ls_emp_tab WHERE emp_id = ls_key_tab-value.
SELECT SINGLE * FROM zot_cont_det INTO ls_empadd_tab WHERE emp_id = ls_key_tab-value.
MOVE-CORRESPONDING ls emp tab TO ls expand.
MOVE-CORRESPONDING ls empadd tab TO ls empadd.
APPEND ls_empadd TO ls_expand-empcontdetailsnavig.
"Assign the navigation properties
ls_expand_tech_clauses = 'empcontdetailsnavig'.
APPEND ls_expand_tech_clauses TO et_expanded_tech_clauses.
```

```
copy_data_to_ref(
EXPORTING
is_data = ls_expand
CHANGING
cr_data = er_entity ).
ENDMETHOD.
```

SUCCESS CODE: 200

DEEP INSERT

To create deep entity.[Parent data with child][Header with Line Items]

Steps:

- 1. 1.Read data from GET_EXPANDED_ENTITY
- 2. 2. Made HTTP method as POST.
- 3. 3. Click User as Request and Edit values You want to Insert.
- 4. 4.url

----ZEMPLOYEE_INFO_SRV/EmpDetailsSet

1. 5.Execute.

```
method /IWBEP/IF_MGW_APPL_SRV_RUNTIME~CREATE_DEEP_ENTITY.
TYPES: ty t empadd TYPE STANDARD TABLE OF ZCL ZEMPLOYEE INFO MPC=>TS EMPCONTACTDETAILS WITH DEFAULT KEY.
TYPES: BEGIN OF ty_expand.
INCLUDE TYPE ZCL_ZEMPLOYEE_INFO_MPC=>TS_EMPDETAILS.
TYPES :
              EmpContDetailsNavig TYPE ty t empadd,
END OF ty expand.
DATA:
*&---> Local structures.
Is deep emp details TYPE ty expand,
ls emp cont det TYPE ZOT CONT DET,
*&---> Local Itabs.
It emp cont det TYPE TABLE OF ZOT CONT DET.
io_data_provider->read entry data( IMPORTING es data = ls deep emp details ).
copy_data_to_ref( EXPORTING is_data = ls_deep_emp_details
CHANGING cr_data = er_deep_entity ).
MOVE-CORRESPONDING ls deep emp details TO ls emp details.
MOVE-CORRESPONDING ls_deep_emp_details-details TO ls_emp_details.
INSERT INTO zxx emp det VALUES ls emp details.
LOOP AT 1s deep emp details-empcontdetailsnavig INTO 1s emp cont det.
APPEND 1s emp cont det TO 1t emp cont det.
ENDLOOP.
MODIFY zot_cont_det FROM TABLE lt_emp_cont_det.
IF sy-subrc EQ 4.
ENDIF.
endmethod.
```

CREATE MEDIA

- 1. 1. Redefine the DEFINE METHOD OF MPC_EXT CLASS
- 2. 2. Paste code.
- 3. 3. We need to get key values in SLUG Parameter Of http.
- 4. URL.

———————-ZEMP_PRO_SRV/EmpDetailsSet('1')/EmpPhotoNavig

- 1. 4. Click on add file select image.
- 2. 5. Check Post method of HTTP.
- 3. 5. Execute.

```
method DEFINE.
super->DEFINE().

DATA:
lo_entity type REF TO /IWBEP/IF_MGW_ODATA_ENTITY_TYP,
lo_property type REF TO /IWBEP/IF_MGW_ODATA_PROPERTY.
lo_entity = model->GET_ENTITY_TYPE( IV_ENTITY_NAME = 'EmpPhoto').

IF lo_entity is BOUND.
lo_property = lo_entity->GET_PROPERTY( IV_PROPERTY_NAME = 'MIMETYPE').
lo_property->SET_AS_CONTENT_TYPE().
```

ENDIF.

endmethod.

method /IWBEP/IF_MGW_APPL_SRV_RUNTIME~CREATE_STREAM.

DATA: ls_key_tab TYPE /iwbep/s_mgw_name_value_pair,

It_key_tab TYPE / iwbep/t_mgw_name_value_pair,

Is_photo TYPE zemp_photos,

lv_email TYPE char100.

CASE iv_entity_name.

WHEN 'EmpPhoto'.

READ TABLE it_key_tab WITH KEY name = 'EMP_ID' INTO Is_key_tab.

IF SY-SUBRC EQ 0.

ls_photo-emp_id = ls_key_tab-value.

ENDIF.

ls_photo-mimetype = is_media_resource-mime_type.

ls_photo-filename = iv_slug.

ls_photo-content = is_media_resource-value.

DELETE FROM zemp_photos WHERE emp_id = Is_photo-emp_id.

```
INSERT INTO zemp_photos VALUES Is_photo.
   empphotoset_get_entity(
    EXPORTING
    iv_entity_name = iv_entity_name
     iv_entity_set_name = iv_entity_set_name
     iv_source_name = iv_source_name
                  = it_key_tab
     it_key_tab
     it_navigation_path = it_navigation_path
    IMPORTING
     er_entity
                 = ls_photo ).
   copy_data_to_ref( EXPORTING is_data = Is_photo
           CHANGING cr_data = er_entity).
 ENDCASE.
endmethod.
```

READ MEDIA

```
Steps:
URL:
            —/ZEMPLOYEE_INFO_SRV/EmpPhotoSet('1')/$value
1. 1. Redefine GET_STREAM Method Paste code.
2. 2. Select GET Method of HTTP.
3. 3. Execute.
method / IWBEP/IF MGW APPL SRV RUNTIME~GET STREAM.
 DATA: 1s key
                    TYPE/iwbep/s mgw name value pair,
            TYPE char100.
lv email
            TYPE ZEMP_PHOTOS,
ls photo
            TYPE ihttpnvp,
ls lheader
ls stream
            TYPE ty_s_media_resource,
lv filename TYPE w3conttype.
CASE iv entity name.
WHEN 'EmpPhoto'.
READ TABLE it key_tab WITH KEY name = 'EMP_ID' INTO ls_key.
lv email = ls key-value.
SELECT SINGLE * FROM ZEMP PHOTOS INTO CORRESPONDING FIELDS OF 1s photo WHERE EMP ID = 1v email.
ls stream-value = ls photo-content.
ls stream-mime_type = ls_photo-mimetype.
lv_filename = ls_photo-filename.
    lv_filename = escape( val = lv_filename
```

```
format = cl_abap_format=>e_url ).
    Is_lheader-name = 'Content-Disposition'.
*
    ls_lheader-value = |inline; filename="{ lv_filename }"|.
    set_header( is_header = Is_lheader ).
Is_stream-value = ls photo-content.
ls_stream-mime_type = lv_filename.
copy_data_to_ref(EXPORTING is_data = ls_stream
CHANGING cr data = er stream ).
    copy_data_to_ref( EXPORTING is_data = Is_stream
           CHANGING cr_data = er_stream).
ENDCASE.
***** SOME DUMMY REFERENCE CODE FOR SAME METHOD [CAN BE USEFUL] ****
**TRY.
*CALL METHOD SUPER->/IWBEP/IF_MGW_APPL_SRV_RUNTIME~GET_STREAM
* EXPORTING
* IV_ENTITY_NAME
* IV_ENTITY_SET_NAME =
* IV_SOURCE_NAME
* IT_KEY_TAB
* IT_NAVIGATION_PATH =
** io_tech_request_context =
** IMPORTING
** er_stream
** CATCH /iwbep/cx_mgw_busi_exception .
```

```
** CATCH /iwbep/cx_mgw_tech_exception .
**ENDTRY.
*DATA: Is_stream TYPE
                          ty_s_media_resource
   ,lo_api TYPE REF TO if_mr_api
   ,lv_entity_name TYPE /IWBEP/MGW_TECH_NAME
   ,er_entity type REF TO DATA
   ,Ir_entity TYPE REF TO DATA
   ,empphotoset_get_entity TYPE ZCL_ZEMP_PRO_MPC=>TS_EMPPHOTO
   ,ls_content type table of TBL1024 initial size 0
   ,ls_xstring type xstring
   ,lt_messg type table of BAPIRET2 initial SIZE 0
   ,lv_pernr(8) TYPE n
   ,t_photo type table of TBL1024
   ,I_photo type XSTRING
   ,I_line type string
   ,l_photo1 type string
   ,ls_ret type BAPIRET2
   ,ls_photo type ZEMP_PHOTOS
   ,t_msg type table of BAPIRET2.
*Iv_entity_name = io_tech_request_context->GET_ENTITY_TYPE_NAME().
*CASE Iv_entity_name.
   WHEN 'ZsempDet'.
   WHEN 'EmpPhoto'.
   empphotoset_get_entity(
      EXPORTING iv_entity_name = iv_entity_name
          iv_entity_set_name = iv_entity_set_name
          iv_source_name = iv_source_name
          it_key_tab
                        = it_key_tab
          it_navigation_path = it_navigation_path
          io_tech_request_context = io_tech_request_context
```

```
IMPORTING er_entity
                              = empphotoset_get_entity
                ).
     IF empphotoset_get_entity IS NOT INITIAL.
    Send specific entity data to the caller interface
     copy_data_to_ref(
          EXPORTING
          is_data = empphotoset_get_entity
          CHANGING
          cr_data = er_entity
            ).
     ELSE.
     In case of initial values – unbind the entity reference
**
     er_entity = Ir_entity.
     ENDIF.
     lv_pernr = empphotoset_get_entity-emp_id.
     CALL FUNCTION 'PAD_PHOTO_UPDATE_GET_DETAIL'
     EXPORTING
       IV_EMPLOYEE_NUMBER
                                   = lv_pernr
     TABLES
        T_PHOTO_ARCHIVE_OUT
                                   = t_photo
       T_MESSAGES_OUT
                                = t_msg
**
      LOOP AT t_photo into Is_photo.
        I_line = Is_photo-line.
         concatenate l_photo1 l_line into l_photo1.
      ENDLOOP.
       Is_stream-value = I_photo = I_photo1.
       ls_stream-mime_type = 'image/jpeg'.
```

* copy_data_to_ref(EXPORTING is_data = Is_stream
* CHANGING cr_data = er_stream).
*
* WHEN OTHERS.
*ENDCASE.
endmethod.
Entity Types.
https://help.sap.com/saphelp_nw74/helpdata/en/bb/dc22512c312314e10000000a44176d/content.htm
Entity Sets.
https://help.sap.com/saphelp_nw74/helpdata/en/b6/dc22512c312314e10000000a44176d/content.htm
A. Associations.
https://help.sap.com/saphelp_nw74/helpdata/en/07/dc22512c312314e10000000a44176d/content.htm
Navigation Properties.
http://help.sap.com/saphelp_nw74/helpdata/en/3f/dd22512c312314e10000000a44176d/content.htm

Guys,

Alert Moderator

If you observe here we are processing only one entity at a time, But in real time scenario we may have to process multiple entities in an instance.

so for multiple entity processing we need batch processing, Please refer this blog Simple steps to perform Batch Operations in SAP Gateway Services. Assigned tags

SAP Gateway

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48 Comments

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Former Member

November 3, 2014 at 8:39 am

nice one arshad

Like (0)



Amarnath Prasad

November 3, 2014 at 12:14 pm

Nice blog....but no need of structure, you can use same table for importing DDIC Structure.

Like (0)



ARSHAD SHAIKH | Post author

November 3, 2014 at 12:35 pm

Yeah, We can.. But I included address details structures to achieve Complex type concept,

If we don't want some fields then we can eliminate at the time of adding Entity Type.

Like (0)



Former Member

November 4, 2014 at 8:52 am

y helpful document!!!Thanks	
(0)	
Irfan Gokak	
ember 4, 2014 at 10:49 am	
Arshad,	
/ery helpful info thankssss	
e (0)	
Former Member	
ember 4, 2014 at 10:57 am	
esome blog.	
e (0)	
Ganesh Rangopanth	
ember 5, 2014 at 6:22 am	
e blog,	
elped me a lot .	



Former Member

November 5, 2014 at 6:26 am

good resource very helpful.

Like (0)



Former Member

November 10, 2014 at 9:54 am

Its really great blog for beginners, thanks for sharing... I was finding blog to start development on oData. this is very nice.

Like (0)



ARSHAD SHAIKH | Post author

December 8, 2014 at 8:57 am

Thank you, Adhimoolam...

Like (0)



Rama Sudhakar

November 14, 2014 at 7:35 am

Hi Arshad,

Nice work it was really help full document, thank for sharing the doc..

Regards Sudhakar Like (0) ARSHAD SHAIKH | Post author December 8, 2014 at 8:56 am Thank you for your support, I'll keep posting. Like (0) Former Member December 1, 2014 at 3:02 am Wonderful work Arshad, really very useful



Like (0)

ARSHAD SHAIKH | Post author

Please keep on posting any need full documents

December 8, 2014 at 8:54 am

Thank you



Former Member

December 7, 2014 at 8:02 pm

I am unable to see the employee table structure i mean there is no such employee table should i create it by myself or am i doing something wrong.

Like (0)



ARSHAD SHAIKH | Post author

December 8, 2014 at 8:52 am

Hi Sibtain,

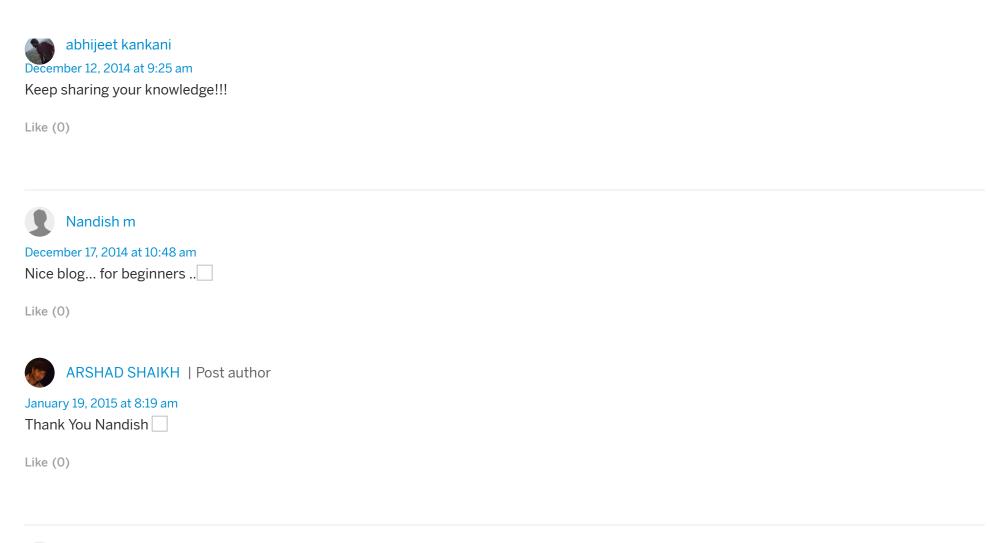
In Tables Used. first table is

1. Employee Details table[Principle data]Or[Header Information]

Yes, U need to create custom table, U can find fields and details in above Image.

Regards,

Arshad Shaikh.



3

Christian Weiß

January 13, 2015 at 2:58 pm

Hi Arshad,

very helpful, thank you for sharing...

Regards

\circ		
Ch	rist	ıan

Like (0)



ARSHAD SHAIKH | Post author

January 19, 2015 at 8:19 am

Thank You Christian

Like (0)



Siva prasad Ramani

January 28, 2015 at 7:25 am

Hi Arshad thanks for sharing valuable info..

Moderator comments:

Comments trimmed.

Like (0)



Krishna Kishor Kammaje

January 28, 2015 at 7:44 am

Shiva, Make use of forums for asking questions.



February 5, 2015 at 3:23 pm

@ Krishna Kishore .. Agree

Like (0)



Former Member

February 5, 2015 at 3:21 pm

Thank you Siva prasad Ramani..

Please let me know if you have any questions regarding this blog..

Regards,

Arshad

Like (0)



Siva prasad Ramani

February 6, 2015 at 4:27 am

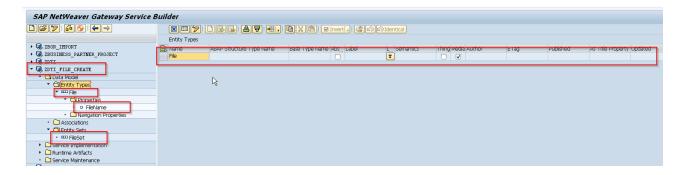
Hi Arshad,

Thank you for sharing valuable info..

I'm struggling when create file in service.

Please check it once.

This is my Entity type and Entity set in my service.



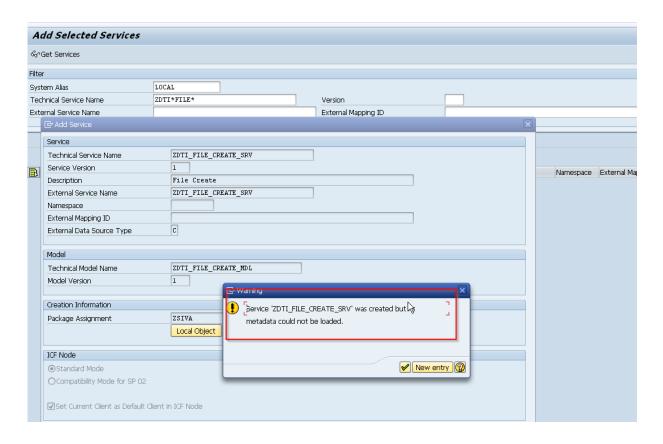
This is my DEFINE method.

```
Method
         DEFINE
                                                                Active
        method DEFINE.
     2
     3
           super->DEFINE( ).
          DATA:
          lo_entity type REF TO /IWBEP/IF_MGW_ODATA ENTITY TYP,
          lo property type REF TO /IWBEP/IF MGW ODATA PROPERTY
          lo entity = model->GET ENTITY TYPE( IV ENTITY NAME
                                                                'File' )."' mpPhoto' ).
        ☐ IF lo entity is BOUND.
    10
          lo_property = lo_entity->GET_PROPERTY( IV_PROPERTY_NAME =
                                                                     'MIMETYPE' ).
          lo property->SET AS CONTENT TYPE( ).
    11
    12
          ENDIF.
    13
    14
    15
          endmethod.
```

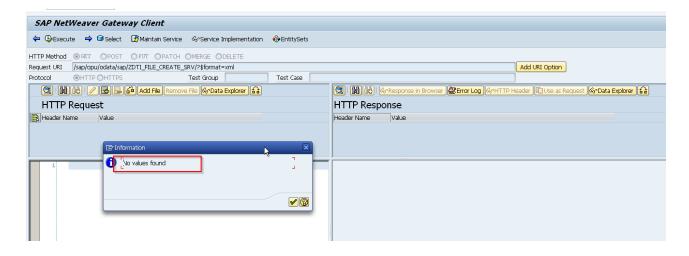
And here is my create_stream method.

```
/IWBEP/IF_MGW_APPL_SRV_RUNTIME~CREATE_STREAM
Method
                                                            Active
       □ method /IWBEP/IF MGW APPL SRV RUNTIME~CREATE STREAM.
          DATA: lw file TYPE zzupload.
         *DATA: 1w_file TYPE ZCL_ZDTI_PHOTO_CREATE_MPC=>TS_FILE.
         DATA : lv var TYPE string,
         lt_key_tab TYPE /iwbep/t_mgw_name_value_pair.
         *READ TABLE it key tab ASSIGNING FIELD-SYMBOL(<fs key>) INDEX 1.
         FIELD-SYMBOLS: <fs key> TYPE /IWBEP/S MGW NAME VALUE PAIR.
    10
    11
    12
       CASE iv entity name.
       WHEN 'File'.
   13
   14
        READ TABLE it_key_tab ASSIGNING <fs_key> INDEX 1.
   15 | #1v var = '123s.jpg'.
        *IV SLUG = 1v var.
   16
   17
        lw_file-filename = IV_SLUG."<fs key>-value.
   19
        *lw file-filename = <fs key>-value.
   20
        lw file-value = is media resource-value.
   21
        lw_file-mimetype = is_media_resource-mime_type.
   22
        lw_file-sydate = sy-datum.
   23
        lw file-sytime = sy-uzeit.
   24
       #MODIFY zzupload FROM lw file.
   25
         *INSERT INTO zzupload VALUES lw file.
   26
        DELETE FROM zzupload WHERE filename = lw file-filename.
   27
         INSERT zzupload FROM lw file.
   28
        - END CASE.
   29
   30
        endmethod.
```

So when i add selected service I'm getting this warning.

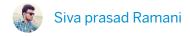


And when click on EntitySets, displays this information message.



If i use Define method getting warning "Service was created but meta data could not be loaded" when add service.

Problem there is in DEFINE method i guess.
How can i resolve it.?
Thanks,
Siva R.
Like (0)
Former Member
February 6, 2015 at 5:02 am Hi Shiva,
Problem is with your metadata and I can see only one attribute in your Entity Type but To fetch data from Request side of Gateway client.Entity should contain type of rawstring as for i see there is no raw string in your entity check the structure which i used for Media Entity Type.
you can check
Service 'ZABC' was created but metadata could not be loaded
Thanks,
Arshad
Like (0)



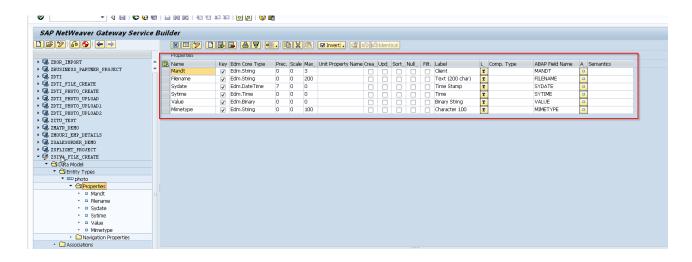
February 6, 2015 at 9:10 am

Hi Arshad.

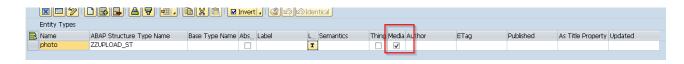
I have a urgent requirement on this scenario.

I have taken Entity as you said above. Again I'm facing same issue.

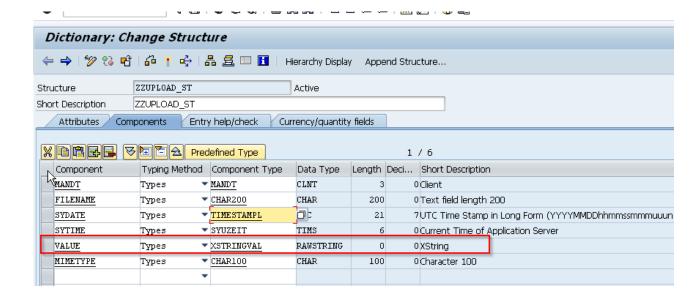
Check here is my screen shorts.



Taken Entity as a media type.



Imported Dictionary structure.



Still getting same warning when add service.

Tec	hnical Service Name	ZSIVA* Version		
Exte	ernal Service Name	External Mapping ID		
	Add Service			
	Service Technical Service Name Service Version Description External Service Name Namespace External Mapping ID External Data Source Type	ZSIVA_FILE_CREATE_SRV 1 file_create ZSIVA_FILE_CREATE_SRV C		P
	Model Technical Model Name Model Version Creation Information Package Assignment	ZSIVA_FILE_CREATE_MDL I Service 'ZSIVA_FILE_CREATE_SRV' was created but its metadata could not be loaded.		
	ICF Node	ient in ICF Node	*	

Regards,

Siva R.

Like (0)



Kedar Tingikar

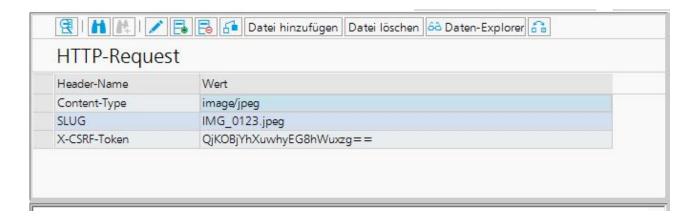
February 5, 2015 at 5:09 pm

Awesome blog Arshad. I like the lucid explanation for every step.

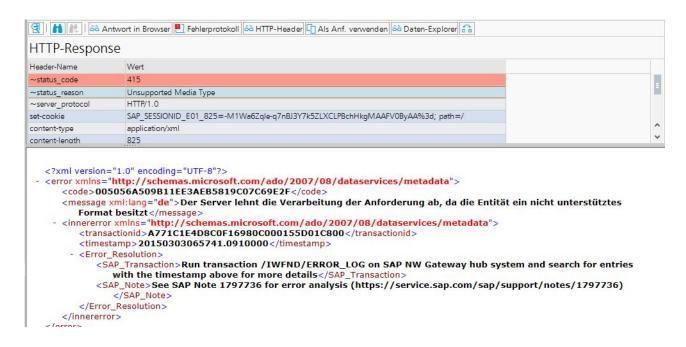
Got more clarity on the Association part.		
Regards,		
Kedar		
Like (0)		
Former Member		
February 6, 2015 at 3:29 am		
Hi Kedar,		
Thank you.		
Like (0)		
Nandakumar S Nair		
February 6, 2015 at 5:35 am		
Hi Arshad,		
Thanks for sharing. Very good document for beginners.		
Keep posting.		
neep positing.		

Thanks & regards,
Nandakumar S
Like (0)
Former Member
February 6, 2015 at 5:43 am
Hi Nandakumar,
Thank you
Let me know if you have any questions
Like (0)
Former Member
March 3, 2015 at 7:00 am
Hi Arshad,
First, Thanks for Sharing, this is very helpful for beginners like me. 🗌
Actually im faceing a Problem by implementing it like this. When i try to send an picture via Post i always get an Error. (415: Unsupported Media Type

this is my Request:



and this is the Response:



Regards!
Sascha
Like (0)
ARSHAD SHAIKH Post author March 3, 2015 at 5:02 pm Hi Sascha,
Problem is in your request, You may entered wrong URI, request body or request header.
check once.
FYI check Code 415: Unsupported media type
Thanks,
Arshad
Like (0)
Vishnu Pankajakshan

April 9, 2015 at 10:28 am

Hi Arshad,
Thanks for sharing this wonderful document,i wud like to try all these operations from UI5.
Regards,
Vishnu
Like (0)
Tasnim Ara
March 10, 2016 at 9:53 am
Hi Arshad,
Nice Blog Arshad !!!!!!!!!!! Keep Updating New Operation in Gateway !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Like (0)
Prabhu Pole
April 13, 2016 at 8:59 am
Arshad,

It's really helpful for	beginners	thanks	alot
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Like (0)



Former Member

May 10, 2016 at 5:31 pm

Thank you ..very helpful

Like (0)



Timothy Muchena

June 3, 2016 at 2:38 pm

You are officially a Rock-Star!

Thank you

Like (0)



Timothy Muchena

June 6, 2016 at 9:51 am

Is it possible to have Details structure as a table type to cater for scenarios where you have more than one detail records for an employee?



June 25, 2016 at 6:19 am

Hello sir,

while uploading media you are passing navigation name, but you have not created navigation,

ZEMP_PRO_SRV/EmpDetailsSet('1')/EmpPhotoNavig

i tried by creating navigation but still its not redirecting to to create stream method

please suggest how i can do that......

Like (0)



Amarnath Prasad

July 4, 2016 at 6:53 am

No need to create navigation for uploading document. Create Entity (Check Media Type) and redefine the method define (mpc_ext).

Use following URL for uploading document from gateway client(/iwfnd/gw_client):-

'/sap/opu...../ServiceName/EntitySet' and select method as post.

Step for Redefining 'Define' method:-

Click On Runtime Artifacts->zcl_service_name.._mpc_ext->Right Click->Go to ABAP ->Workbench ->Redefine 'Define' method having code below-

```
super->define().
 DATA:
  lo_entity TYPE REF TO /iwbep/if_mgw_odata_entity_typ,
  lo_property TYPE REF TO /iwbep/if_mgw_odata_property.
  "Attachment is your media type entity name
 lo_entity = model->get_entity_type( iv_entity_name = 'Attachment' ).
 "MimeType is a property of Attachment Entity
 IF lo_entity IS BOUND.
  lo_property = lo_entity->get_property( iv_property_name = 'MimeType' ).
  lo_property->set_as_content_type().
 ENDIF.
Like (0)
```



Gaurav Kashinath Pednekar

September 23, 2016 at 5:16 pm

is there anything to Deep Update? Like we are changing item level data for Sales order or Purchase Order and then we are saving it. How to go about it?

Like (0)
Gaurav Kashinath Pednekar
September 23, 2016 at 5:16 pm Please need your help on this
Like (0)
Former Member
September 28, 2016 at 5:06 am
Hi Arshad,
You are so kind to share such a helpful tutorial. There is saying that sharing is caring.
You did a fantastic job!! I will go though your instruction in details.
Thanks for your efforts.



April 2, 2017 at 1:37 pm

Hi Arshad,

Very Nice document to share.
Many thanks / Himanshu Gupta
Like (0)
Adam Krawczyk
December 21, 2017 at 8:05 am
Nice blog with core features described.
Few additional hints to solutions:
 When using generic methods like create_deep_entity we should check what is context entity name (io_tech_request_context- >get_entity_type_name).
• By doing this we can support creation of many complex types etc. It will work without it if we use only one complex entity type for creation, but as a good practice it is worth to do check.
• get_expanded_entity can be redefined for performance reasons if we want to control single logic for loading many expanded entities.
• For simple purpose we can just redefine method get_entity_set of all subsequent entities (EmpContactDetails in your example), check what is the parent (io_request->get_soruce_entity_type_name) and get keys for selection (io_request->get_converted_soruce_keys). If parent is empty it means that direct filter search is used on entity without expand.
Regards,
Adam

1	David Raven
4	21 2010 175

January 31, 2018 at 7:55 am

Hi,

Can I use the media part that you describe to download PDF or DOCX?

Thanks.

Like (0)

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