

# How to use Public API to do CURD

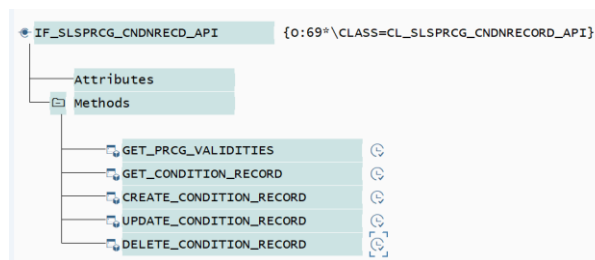
## Contents

1. Sales .....	1
1. Basic function.....	1
2. Examples of CURD.....	2
1. CREATE_CONDITION_RECORD.....	2
2. GET_CONDITION_RECORD.....	4
3. UPDATE_CONDITION_RECORD .....	5
4. DELETE_CONDITION_RECORD .....	6
3. Example for Calling the API.....	6
2. Purchasing.....	7
1. Basic function.....	7
2. Examples of CURD.....	8
1. CREATE_CONDITION_RECORD.....	8
2. GET_CONDITION_RECORD.....	10
3. UPDATE_CONDITION_RECORD .....	11
4. DELETE_CONDITION_RECORD .....	11
3. Example for calling the API .....	12
3. Mapping .....	13

## 1. Sales

### 1. Basic function

Public API for Sales provide 4 method to do CURD of condition records.



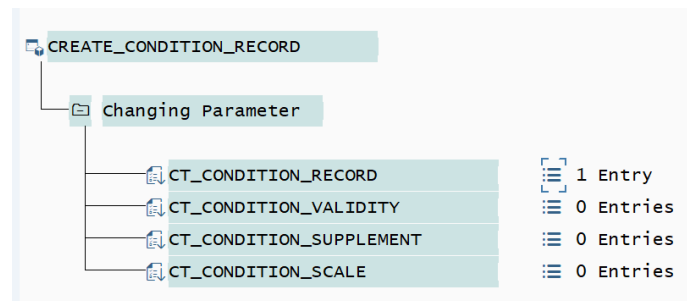
- **GET\_CONDITION\_RECORD**: This method is used to display condition record as you input the some search criterial. (GET\_PRCG\_VALIDITIES is a method with same function, we recommend users so not use this one)
- **CREATE\_CONDITION\_RECORD**: You can create condition records with validity and its supplement and scales or just create supplement and scales for existed condition records.
- **UPDATE\_CONDITION\_RECORD**: Update some changeable fields for condition records.
- **DELETE\_CONDITION\_RECORD**: Delete condition records or supplement or scales.

## 2. Examples of CURD

### 1. CREATE\_CONDITION\_RECORD

Importing Parameters:

- CT\_CONDITION\_RECORD
- CT\_CONDITION\_VALIDITY
- CT\_CONDITION\_SUPPLEMENT
- CT\_CONDITION\_SCALE



Create example: if you want to create a condition record with validity, do the following steps.

#### 1. Prepare the basic input data

Condition Type: PPRO

Condition Table: A305

You can check the key fields of table A305, as below:

- VKORG – Sales Organization
- VTWEG – Distribution Channel
- KUNNR – Customer
- MATNR – Material

#### 2. Input mandatory fields into importing parameter.

You can create a new condition record with its validity, supplement and scale.

- CT\_CONDITION\_RECORD (required)
- CT\_CONDITION\_VALIDITY (required)
- CT\_CONDITION\_SUPPLEMENT (optional)
- CT\_CONDITION\_SCALE (optional)

You can also create a supplement or scale for existed condition record.  
 Validity, supplement and scale for one condition record will be connected by its condition record number. You can create multiple condition records in one time.

#### CT\_CONDITION\_RECORD

CONDITIONRECORD	\$\$00000001
CONDITIONSEQUENTIALNUMBER	01
CONDITIONTABLE	305
CONDITIONAPPLICATION	V
CONDITIONTYPE	PPRO
CONDITIONRATEVALUE	666
CONDITIONRATEVALUEUNIT	EUR
CONDITIONQUANTITY	1
CONDITIONQUANTITYUNIT	CAR

#### CT\_CONDITION\_VALIDITY

CONDITIONRECORD	\$\$00000001
CONDITIONVALIDITYENDDATE	Default (or input value)
CONDITIONVALIDITYSTARTDATE	Default (or input value)
SALESORGANIZATION	0001
DISTRIBUTIONCHANNEL	01
CUSTOMER	100020
MATERIAL	TG11

#### CT\_CONDITION\_SUPPLEMENT

CONDITIONRECORD	\$\$00000001 (or an existed number)
CONDITIONTYPE	PPRO
CONDITIONRATEVALUE	821
CONDITIONRATEVALUEUNIT	EUR

#### CT\_CONDITION\_SCALE

CONDITIONRECORD	\$\$00000001 (or an existed number)
CONDITIONSEQUENTIALNUMBER	01
CONDITIONSCALELINE	0002
CONDITIONRATEVALUE	600
CONDITIONRATEVALUEUNIT	EUR
CONDITIONSCALEQUANTITY	100
CONDITIONSCALEQUANTITYUNIT	CAR

3. Execute after input parameters



QUERYOPTIONCOUNTISSET	
QUERYOPTIONINLINECOUNTISSET	X

2. Fill the parameters

You can input search criteria as example, in this example:

I filled CONDITIONTABLE: [I EQ 305](#)

3. Execute successfully

If no error raise, you can check export parameters, find the detail information of condition records:

Parameter Name	Entries
ET_CONDITION_VALIDITY	197 Entries
ET_CONDITION_RECORD	188 Entries
ET_CONDITION_SCALE	87 Entries
ET_CONDITION_SUPPLEMENT	52 Entries
ES_CNDN_QUERY_OPTION_RESPONSE	<Initial>

3. UPDATE\_CONDITION\_RECORD

Importing parameters:

- CT\_CONDITION\_RECORD
- CT\_CONDITION\_VALIDITY
- CT\_CONDITION\_SUPPLEMENT
- CT\_CONDITION\_SCALE

Update example: if you want to update the changeable fields for condition records, do the following steps.

1. Prepare basic parameters

CT\_CONDITION\_RECORD

CONDITIONRECORD	0000202628
CONDITIONRATEVALUE	444
CONDITIONRATEVALUEUNIT	EUR (same as original)

CT\_CONDITION\_VALIDITY

CONDITIONRECORD	0000202628
CONDITIONVALIDITYENDDATE	20.08.2019
CONDITIONVALIDITYSTARTDATE	20.08.2018

CT\_CONDITION\_SUPPLEMENT

CONDITIONRECORD	0000202628
CONDITIONSEQUENTIALNUMBER	03
CONDITIONRATEVALUE	666
CONDITIONRATEVALUEUNIT	EUR (same as original)

CT\_CONDITION\_SCALE

CONDITIONRECORD	0000202628
CONDITIONSEQUENTIALNUMBER	03
CONDITIONRATEVALUE	666
CONDITIONRATEVALUEUNIT	EUR (same as original)
CONDITIONSCALEQUANTITY	12

CONDITIONSCALEQUANTITYUNIT	EA (same as original)
----------------------------	-----------------------

- Execute successfully  
If execute success, you can check the export parameters, and you will find that the value of reference fields is changed.

4. DELETE\_CONDITION\_RECORD

- Importing parameters:
- CT\_CONDITION\_RECORD
  - CT\_CONDITION\_SUPPLEMENT
  - CT\_CONDITION\_SCALE

Delete example: if you want to delete condition records, we provide you the Delete function to do so, the procedure as following.

- Import parameters  
CT\_CONDITION\_RECORD

CONDITIONRECORD	0000202628
-----------------	------------

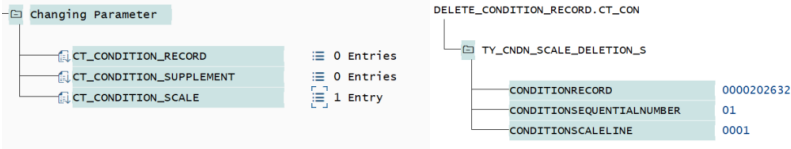
CT\_CONDITION\_SUPPLEMENT

CONDITIONRECORD	0000202628
CONDITIONSEQUENTIALNUMBER	03

CT\_CONDITION\_SCALE

CONDITIONRECORD	0000202628
CONDITIONSEQUENTIALNUMBER	01
CONDITIONSCALELINE	0001

- Execute  
If execute success, the changing parameter will receive the deleted condition records information:  
For example, delete one scale:



3. Example for Calling the API

If you want to call public API in your own project. Here is an example for the calling:  
  
If you want to Call CREATE\_CONDITION\_RECORD (other CRUD methods are called nearly the same steps) to create condition records.

You need firstly declare an object for sales API, for example **mo\_sls\_api**

The constructor of this object like this:

mo\_sls\_api type ref to IF\_SLSPRCG\_CNDNRECD\_API

```
METHOD constructor.  
mo_sls_api ?= cl_prcg_cndnrecord_api_factory=>get_instance( )->get_sales_api_instance( ).  
ENDMETHOD.
```

Then you can call the function, like the following:

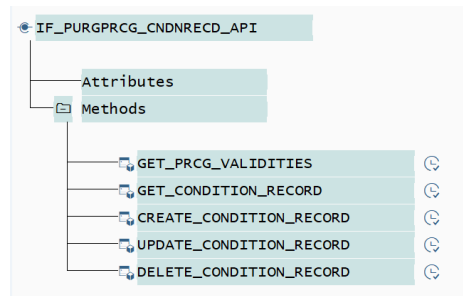
(the importing parameters examples have been provided example before)

```
METHOD create_condition_record.  
TRY.  
mo_sls_api->create_condition_record(  
IMPORTING  
et_message = et_message  
CHANGING  
ct_condition_record = ct_condition_record " Generated Table for View  
ct_condition_validity = ct_condition_validity " Generated Table for View  
ct_condition_supplement = ct_condition_supplement " Generated Table for View  
ct_condition_scale = ct_condition_scale " Generated Table for View  
).  
  
CATCH cx_prcg_cndnrecord_exception INTO DATA(lx_ex). " Exception for Condition Public API  
raise_prcg_cndn_exception( lx_ex ).  
ENDTRY.  
ENDMETHOD.
```

## 2. Purchasing

### 1. Basic function

Public API for Purchasing provide 4 method to do CRUD of condition records.



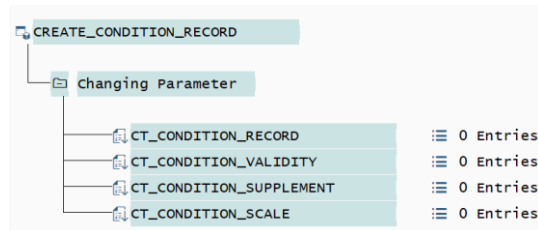
- **GET\_CONDITION\_RECORD**: This method is used to display condition record as you input the some search criterial. (GET\_PRCG\_VALIDITIES is a method with same function, we recommend users so not use this one)
- **CREATE\_CONDITION\_RECORD**: You can create condition records with validity and its supplement and scales or just create supplement and scales for existed condition records.
- **UPDATE\_CONDITION\_RECORD**: Update some changeable fields for condition records.
- **DELETE\_CONDITION\_RECORD**: Delete condition records or supplement or scales.

## 2. Examples of CURD

### 1. CREATE\_CONDITION\_RECORD

Importing Parameters:

- CT\_CONDITION\_RECORD
- CT\_CONDITION\_VALIDITY
- CT\_CONDITION\_SUPPLEMENT
- CT\_CONDITION\_SCALE



Create example: if you want to create a condition record with validity, do the following steps.

#### 1. Prepare the basic input data

Condition Type: PPRO

Condition Table: A016

You can check the key fields of table A305, as below:

- EVRTN – Purchasing Document
- EVRTP – Purchasing Document Item

#### 2. Input mandatory fields into importing parameter.

- You can create a new condition record with its validity, supplement and scale.
  - CT\_CONDITION\_RECORD (required)
  - CT\_CONDITION\_VALIDITY (required)
  - CT\_CONDITION\_SUPPLEMENT (optional)
  - CT\_CONDITION\_SCALE (optional)
- You can also create a supplement or scale for existed condition record.

Validity, supplement and scale for one condition record will be connected by its condition record number. You can create multiple condition records in one time.

#### CT\_CONDITION\_RECORD

CONDITIONRECORD	\$\$00000001
CONDITIONSEQUENTIALNUMBER	01
CONDITIONTABLE	016
CONDITIONAPPLICATION	M
CONDITIONTYPE	PPRO
CONDITIONRATEVALUE	666
CONDITIONRATEVALUEUNIT	EUR



CONDITIONQUANTITY	1
CONDITIONQUANTITYUNIT	CAR

#### CT\_CONDITION\_VALIDITY

CONDITIONRECORD	\$\$00000001
CONDITIONVALIDITYENDDATE	Default (or input value)
CONDITIONVALIDITYSTARTDATE	Default (or input value)
PURCHASINGDOCUMENT	4500000112
PURCHASINGDOCUMENTITEM	00001

#### CT\_CONDITION\_SUPPLEMENT

CONDITIONRECORD	\$\$00000001 (or an existed number)
CONDITIONTYPE	PPRO
CONDITIONRATEVALUE	821
CONDITIONRATEVALUEUNIT	EUR

#### CT\_CONDITION\_SCALE

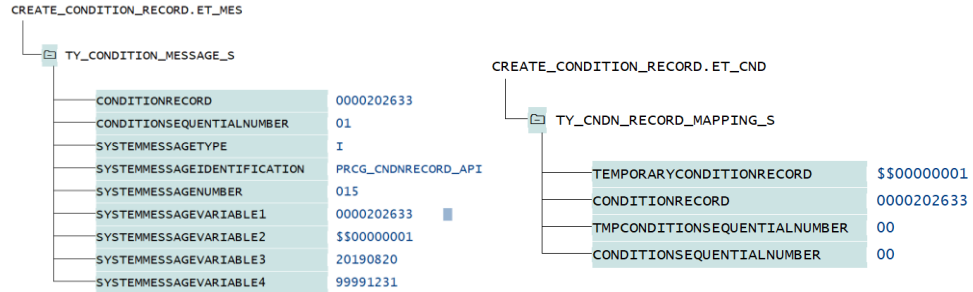
CONDITIONRECORD	\$\$00000001 (or an existed number)
CONDITIONSEQUENTIALNUMBER	01
CONDITIONSCALELINE	0002
CONDITIONRATEVALUE	600
CONDITIONRATEVALUEUNIT	EUR
CONDITIONSCALEQUANTITY	100
CONDITIONSCALEQUANTITYUNIT	CAR

### 3. Execute after input parameters

Create Execute Successful: if you create successfully, you can receive messages, which filled in the following 2 parameters: (note: this create no commit, if you want to save data, need add commit code)

- ET\_MESSAGE
- ET\_CNDN\_RECORD\_MAPPING

Message format: ([PRCG\\_CNDNRECORD\\_API \(015\)](#)) Condition record 0000202633 (temp. No. \$\$00000001) is created and valid from 20190820 to 99991231.



## 2. GET\_CONDITION\_RECORD

Importing Parameters:

- IS\_CNDNRECORD\_CRITERIA\_HEADER
- IT\_CNDNRECORD\_CRITERIA\_ITEM
- IS\_CNDNRECORD\_QUERY\_OPTION

Get example: if you want to search condition records, do the following steps:

### 4. Prepare search criteria you want to input.

IS\_CNDNRECORD\_CRITERIA\_HEADER (optional)

CONDITIONVALIDITYSTARTDATE	31.12.1999
CONDITIONVALIDITYENDDATE	31.12.1999
DELTDCONDITIONRECORDISEXCLUDED	X

IT\_CNDNRECORD\_CRITERIA\_ITEM (required)

CONDITIONTABLE	SIGN	OPTION	LOW	HIGH	
E.g. 1	I	EQ	016		
CONDITIONRECORD	SIGN	OPTION	LOW	HIGH	
E.g. 1	I	EQ	0000202633		
CONDITIONTYPE	SIGN	OPTION	LOW	HIGH	
E.g. 1	I	EQ	PPRO		
CONDITIONFIELDS ELECTIONOPTION	PRCGCONDITIONFIELD RANGENAME	PRCGCONDITIONFIELD RANGESIGN	PRCGCONDITIONFIELD DRANGEOPTION	PRCGCONDITIONFIELD DRANGELOW	PRCGCONDITIONFIELD DRANGEHIGH
E.g. 1	PURCHASING DOCUMENT	I	EQ	TG11	

IS\_CNDNRECORD\_QUERY\_OPTION (optional)

PRCGQUERYOPTIONTOP	10
PRCGQUERYOPTIONSKIP	1
PRCGQUERYOPTIONORDERBY	SORTFIELD
E.g. 1	PURCHASINGDOCUMENT
QUERYOPTIONCOUNTISSET	SORTSEQUENCE
E.g. 1	DESC
QUERYOPTIONINLINECOUNTISSET	X

### 5. Fill the parameters

You can input search criterial as example, in this example:

I filled CONDITIONTABLE: I EQ 016

### 6. Execute successfully

If no error raise, you can check export parameters, find the detail information of condition records:

Export Parameter	
ET_CONDITION_VALIDITY	27.821 Entries
ET_CONDITION_RECORD	27.758 Entries
ET_CONDITION_SCALE	842 Entries
ET_CONDITION_SUPPLEMENT	3.465 Entries
ES_CNDN_QUERY_OPTION_RESPONSE	<Initial>

### 3. UPDATE\_CONDITION\_RECORD

Importing parameters:

- CT\_CONDITION\_RECORD
- CT\_CONDITION\_VALIDITY
- CT\_CONDITION\_SUPPLEMENT
- CT\_CONDITION\_SCALE

Update example: if you want to update the changeable fields for condition records, do the following steps.

#### 3. Prepare basic parameters

##### CT\_CONDITION\_RECORD

CONDITIONRECORD	0000202633
CONDITIONRATEVALUE	444
CONDITIONRATEVALUEUNIT	EUR (this value cannot be changed)

##### CT\_CONDITION\_VALIDITY

CONDITIONRECORD	0000202633
CONDITIONVALIDITYENDDATE	20.08.2019
CONDITIONVALIDITYSTARTDATE	20.08.2018

##### CT\_CONDITION\_SUPPLEMENT

CONDITIONRECORD	0000202628
CONDITIONSEQUENTIALNUMBER	03
CONDITIONRATEVALUE	666
CONDITIONRATEVALUEUNIT	EUR (same as original)

##### CT\_CONDITION\_SCALE

CONDITIONRECORD	0000202628
CONDITIONSEQUENTIALNUMBER	03
CONDITIONRATEVALUE	666
CONDITIONRATEVALUEUNIT	EUR (same as original)
CONDITIONSCALEQUANTITY	12
CONDITIONSCALEQUANTITYUNIT	EA (same as original)

#### 4. Execute successfully

If execute success, you can check the export parameters, and you will find that the value of reference fields is changed.

### 4. DELETE\_CONDITION\_RECORD

Importing parameters:

- CT\_CONDITION\_RECORD

- CT\_CONDITION\_SUPPLEMENT
- CT\_CONDITION\_SCALE

Delete example: if you want to delete condition records, we provide you the Delete function to do so, the procedure as following.

### 3. Import parameters

#### CT\_CONDITION\_RECORD

CONDITIONRECORD	0000202633
-----------------	------------

#### CT\_CONDITION\_SUPPLEMENT

CONDITIONRECORD	0000202633
CONDITIONSEQUENTIALNUMBER	03

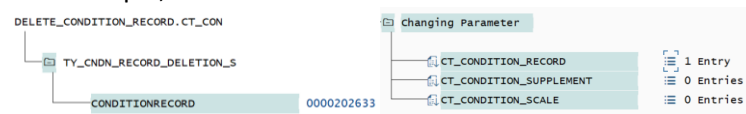
#### CT\_CONDITION\_SCALE

CONDITIONRECORD	0000202633
CONDITIONSEQUENTIALNUMBER	01
CONDITIONSCALELINE	0001

### 4. Execute

If execute success, the changing parameter will receive the deleted condition records information:

For example, delete one condition record:



### 3. Example for calling the API

If you want to call public API in your own project. Here is an example for the calling:

If you want to Call CREATE\_CONDITION\_RECORD (other CRUD methods are called nearly the same steps) to create condition records.

You need firstly declare an object for purchasing API, for example **mo\_purg\_api**

The constructor of this object like this:

mo\_purg\_api type ref to IF\_PURGPRCG\_CNDNRECD\_API

```
METHOD constructor.
  mo_purg_api ?= cl_prcg_cndnrecord_api_factory=>get_instance( )->get_purchasing_api_instance( ).
ENDMETHOD.
```

Then you can call the function, like the following:

(the importing parameters have been provided example before)

```
METHOD create_condition_record.  
  TRY.  
    mo_purg_api->create_condition_record(  
      IMPORTING  
        et_message           = et_message  
      CHANGING  
        ct_condition_record  = ct_condition_record           " Generated Table for View  
        ct_condition_validity = ct_condition_validity         " Generated Table for View  
        ct_condition_supplement = ct_condition_supplement     " Generated Table for View  
        ct_condition_scale   = ct_condition_scale             " Generated Table for View  
    ).  
  
    CATCH cx_prcg_cndnrecord_exception INTO DATA(lx_ex). " Exception for Condition Public API  
      raise_prcg_cndn_exception( lx_ex ).  
    ENDTRY.  
  ENDMETHOD.
```

### 3. Mapping

In our Public API, importing parameters are all using global field name. However, when you do some more development based on our API, maybe you will use the technical name of these fields.

So, we provide you the mapping excel of it.



mapping.xlsx

EXT\_FIELDNAME: Using as global field name, it can be used in importing parameter.

INT\_FIELDNAME: Technical name.