



PUBLIC

# How-To: Node (Table) Extension for Business Partner in MDG Consolidation and Mass Processing

Applicable Releases:

**SAP MDG, Consolidation and SAP MDG, Mass Processing running on release SAP MDG 8.0 or higher and SAP S/4HANA 1610 or higher.**

Version 1.2

January 2023

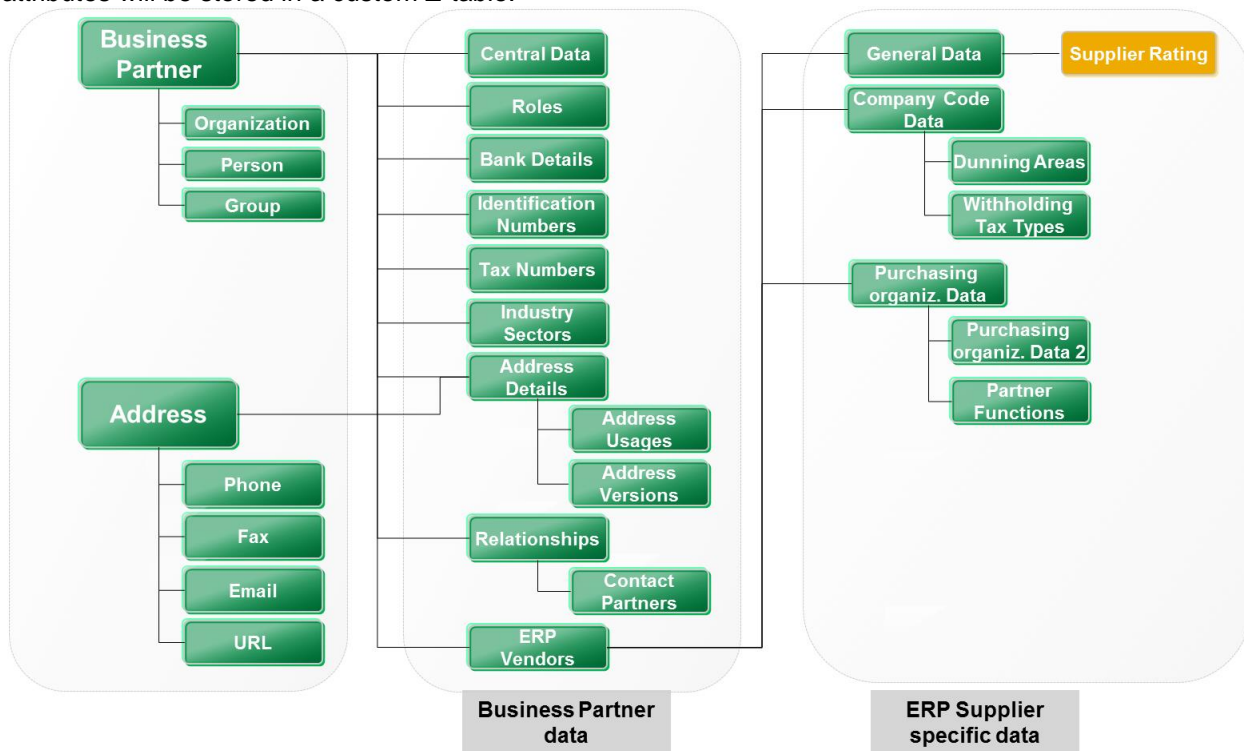
## Document History

| Document Version | Description                                       |
|------------------|---|
| 1.0              | First official release of this guide (Month 2023) |
| 1.1              | Minor changes                                     |
| 1.2              | Formatting changed                                |

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## 1. BUSINESS SCENARIO

To process supplier data within Business Partner consolidation or mass processing, a customer-specific table Supplier Ratings is required. During a consolidation or mass process, the additional supplier rating data will be loaded into source tables and/or process tables and be processed along with standard supplier data. After activation, those attributes will be stored in a custom Z-table.



## 2. BACKGROUND INFORMATION

Before a new table can be handled properly in MDG, Consolidation or MDG, Mass Processing, the following extensions must be made:

- Redefine and extend MDG, Consolidation classes
- Extend MDG process model
- Extend MDG for customer tables to activate the data into an MDG change request

### 3. STEP BY STEP EXPLANATION

The following explanation shows you how to add a new node/table to the Business Partner data model for MDG Consolidation or MDG Mass Processing. The following steps provide details on how to extend the data model by adding a new table ZSUPPLIER\_RATING for ERP Supplier.

For details of the individual DDIC-objects, refer to the Appendix section *Data Dictionary Objects*.

#### 3.1. Extend ERP supplier data model in MDG, central governance

If the consolidated supplier rating data will be passed along with Business Partner and ERP Supplier data to a Change Request within MDG, MDG must be extended accordingly. Those extensions are prerequisite and are not part of this guide.

#### 3.2. Redefine Business Partner model classes

To use and access data in the newly created source and process tables within a process, the following classes must be created. They must inherit from the given superclasses and certain methods must be redefined.

A detailed source code example is provided in the [Appendix](#).

Also note that, as already stated, if the data will be passed to a Change Request, the corresponding MDG extensions must have been implemented. They are not part of this guide.

##### 3.2.1. Create and redefine Business Partner data access class

Create a new class ZCL\_MDC\_DATA\_BP that inherits from class CL\_MDC\_DATA\_BP. The new class will then be used in consolidation processes involving Process Model 147 (Business Partner). The following methods must be redefined:

- TABLE\_NAME\_BY\_TYPE  
A redefinition of this method is only required if the new table for consolidation has 16 characters, like ZSUPPLIER\_RATING, or if own names for source and process tables will be used.
- APPEND\_ACTIVE\_RECORDS

##### Fields using a “Large Object Binary” data type

If your custom field uses a “Large Object Binary” related data type (e.g. a string, blob, raw binary or similar), you need to redefine one more method in your custom Business Partner Data Access class, namely:

- IF\_MDC\_DATA~ CONTAINS\_LOB\_DATA  
A redefinition of this method is only required if the new custom field is using a “large binary object” data type. In this case, ensure that the method returns “abap\_true” for the affected table(s).

##### 3.2.2. Create and redefine Business Partner model implementation class

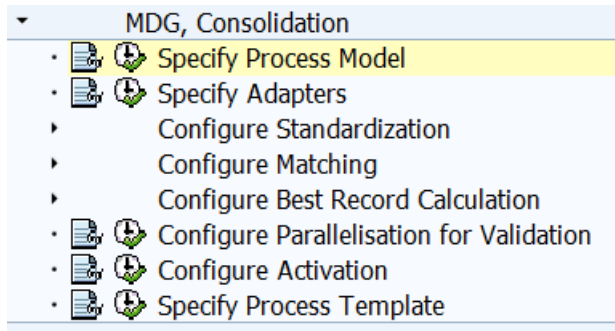
Create a new class ZCL\_MDC\_MODEL\_BP that inherits from class CL\_MDC\_MODEL\_BP. The new class will then be used in processes involving Process Model 147 (Business Partner). The following methods must be redefined:

- READ\_ALL\_DATA
- MAP\_EXTENSIONS\_2API
- SAVE\_BUSINESS\_PARTNER\_ACTIVE

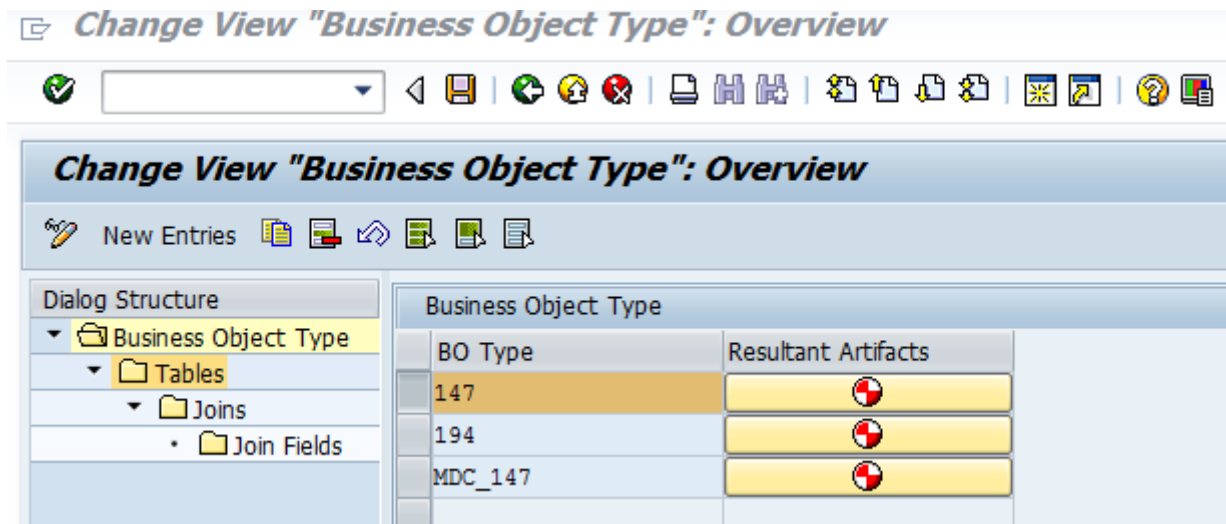
#### 3.3. Extend process model

To extend the Process Model with a new table, the contents of View Cluster VC\_MDC\_MODEL must be changed. This view cluster contains the process model, which includes all relevant tables of an object and their relations.

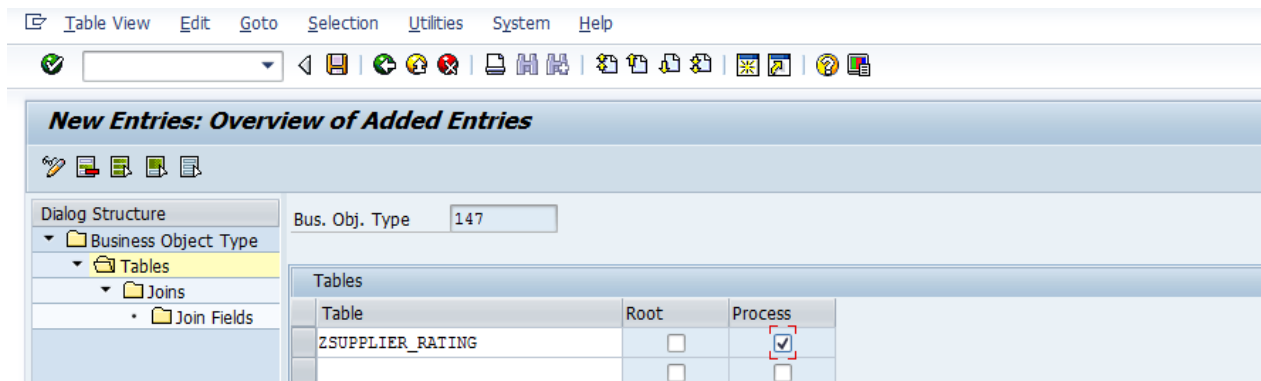
1. Start IMG Activity *Specify Process Model* in the implementation guide for Consolidation and Mass Processing (Transaction MDCIMG).



2. Select Business Object Type 147 (Business Partner) and navigate to the sub-node Tables.



Add a new process table ZSUPPLIER\_RATING to the process model. Add the name of the database table to the *Table* column and mark the *Process* column.



3. Save the changes.
4. Add a new join to table LFA1 by selecting the table line and navigating to Joins. Add new entry ZSUPPLIER\_RATING and mark *Process* and *Active*.

Table View Edit Goto Selection Utilities System Help

**New Entries: Overview of Added Entries**

Dialog Structure

- Business Object Type
  - Tables
    - Joins
      - Join Fields

Bus. Obj. Type: 147

Table: LFA1

| Table            | Process                             | Active                              |
|------------------|-------------------------------------|-------------------------------------|
| ZSUPPLIER_RATING | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
|                  | <input type="checkbox"/>            | <input type="checkbox"/>            |

- Save the changes.
- Select the added Join ZSUPPLIER\_RATING and navigate to *Join Fields* in order to link the parent table LFA1 and child table ZSUPPLIER\_RATING. Add the following records into *Join Fields*:

| Field Name      | Field Name      | Process | Active |
|-----------------|-----------------|---------|--------|
| LIFNR           | LIFNR           |         | X      |
| PROCESS_ID      | PROCESS_ID      | X       |        |
| PROCESS_STEP_NO | PROCESS_STEP_NO | X       |        |
| SOURCE_ID       | SOURCE_ID       | X       |        |
| SOURCE_SYSTEM   | SOURCE_SYSTEM   | X       |        |

**Change View "Join Fields": Overview**

Dialog Structure

- Business Object Type
  - Tables
    - Joins
      - Join Fields

Bus. Obj. Type: 147

Table: LFA1

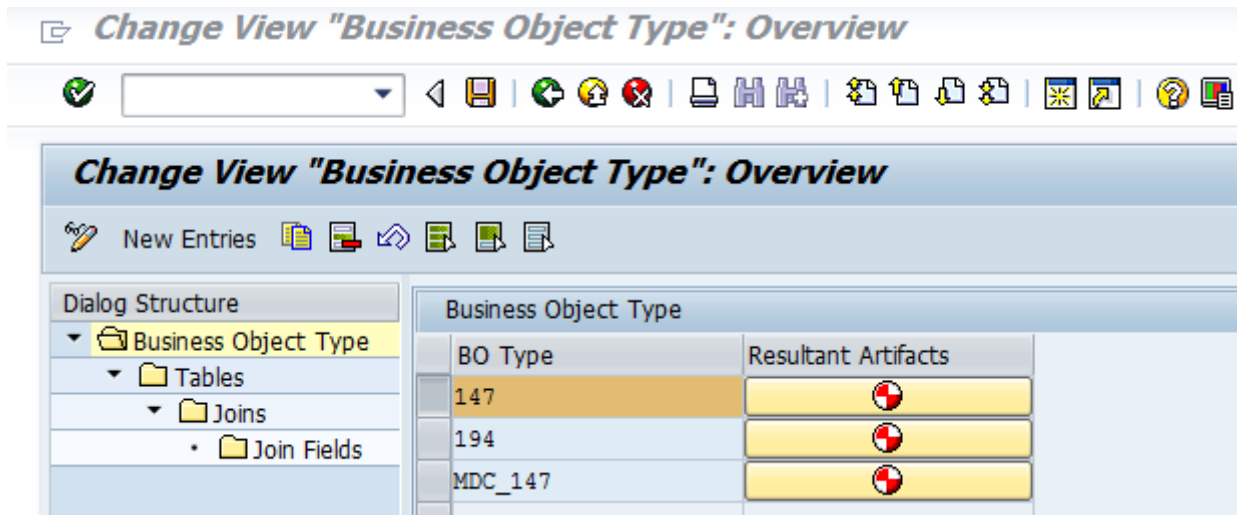
Table: ZSUPPLIER\_RATING

| Field Name      | Field Name      | Process                             | Active                              |
|-----------------|-----------------|-------------------------------------|-------------------------------------|
| LIFNR           | LIFNR           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| PROCESS_ID      | PROCESS_ID      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| PROCESS_STEP_NO | PROCESS_STEP_NO | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| SOURCE_ID       | SOURCE_ID       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| SOURCE_SYSTEM   | SOURCE_SYSTEM   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

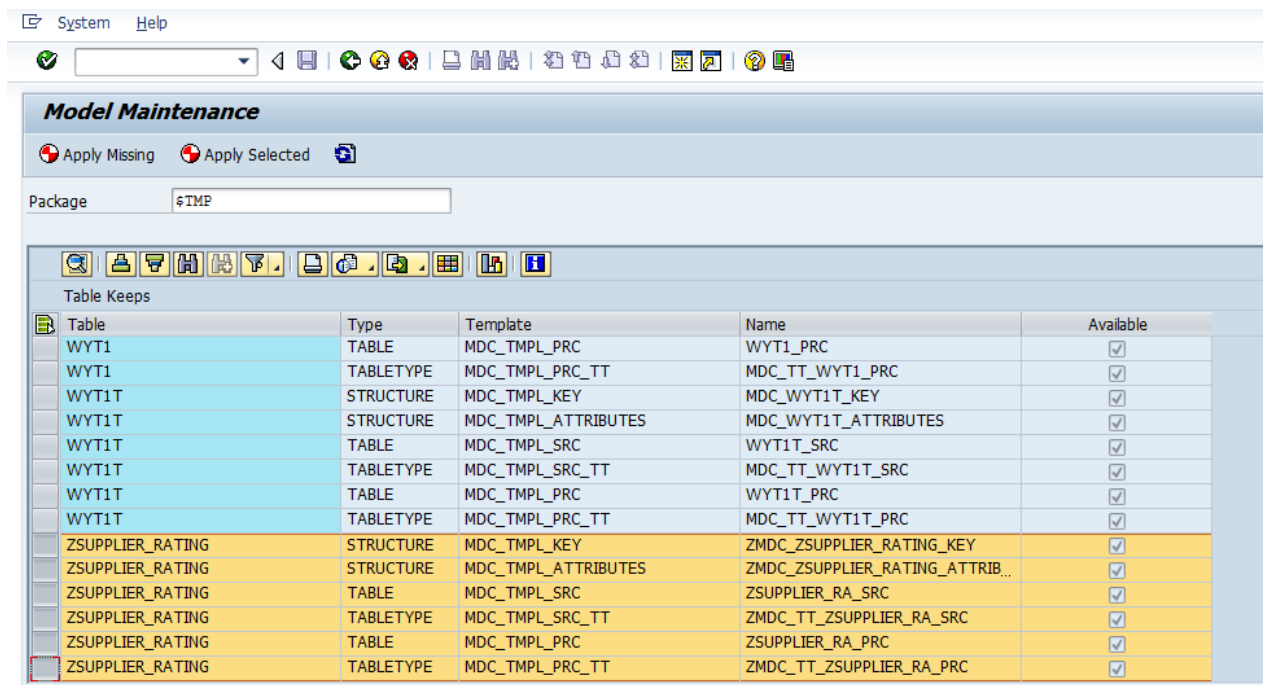
- Save the changes.



- Generate artifacts for new table ZSUPPLIER\_RATING for Business Object Type 147.



- Select all rows containing the new table name ZSUPPLIER\_RATING, choose a package in which the new objects shall be created, and choose *Apply Selected*.



Now all relevant DDIC-objects relevant have been created, including:

- Source database table (ZSUPPLIER\_RA\_SRC) & corresponding table type
- Process database table (ZSUPPLIER\_RA\_PRC) & corresponding table type
- Key and attribute structures

### 3.4. Extend MDG for writing data into MDG change request

The prerequisite extensibility guide for MDG “Extend MDG-S / MDG-C Data Model by a New Field (Reuse Option)” describes most of the steps needed for extending MDG-S / MDG-C with a new table. This section here focuses on the back-end part of such an extension that is required in order to bring activated data of a new table into a change request.

A detailed source code example is provided in the [Appendix](#).

- Create a new BAdI Implementation for BAdI Definition MDG\_BS\_CUST\_SUPP\_CR\_SI (Enhancement Spot MDG\_BS\_CUST\_SUPP\_CR\_SI) using transaction SE19.

- a. Select New BAdI, Enhancement Spot MDG\_BS\_CUST\_SUPP\_CR\_SI and choose *Create Impl.*

**Create Implementation**

☒ New BAdI  
Enhancement Spot

☐ Classic BAdI  
BAdI Name

- b. Create new Enhancement Implementation ZMDC\_SUPPRATING\_IMPLEMENTATION and enter a short text.

**Create Enhancement Implementation**

Enhancement Implementation

Short Text

Composite Enhancement Implementation

- c. Create BAdI Implementation.

|                      |                                |
|----------------------|--------------------------------|
| BAdI Implementation  | ZMDC_SUPPRATING_IMPLEMENTATION |
| Implementation Class | ZCL_MDC_2_MDG                  |
| BAdI Definition      | MDG_BS_CUST_SUPP_CR_SI         |

**Enhancement Implementation ZMDC\_SUPPRATING\_IMPLEMENTATION: Create BAdI**

Create BAdI Implementations for Existing BAdI Definitions

| BAdI Implementation            | Implementation Class | BAdI Definition        |
|--------------------------------|----------------------|------------------------|
| ZMDC_SUPPRATING_IMPLEMENTATION | ZCL_MDC_2_MDG        | MDG_BS_CUST_SUPP_CR_SI |

- d. Activate Enhancement Implementation.

2. Implement the following methods of BAdI Implementation class ZCL\_MDC\_2\_MDG:

- CONSTRUCTOR
- CALCULATE\_DELETIONS
- IF\_MDG\_BS\_CUST\_SUPP\_CR\_SI~SET\_SUPPLIER\_DATA\_2\_STA

Note that at this point the MDG data model must have already been extended with a new entity for ZSUPPLIER\_RATING. In this example, a new entity ZSUPP\_RAC has been created for that case.

## 4. APPENDIX

### 4.1. Data Dictionary Objects

This section contains all DDIC-objects that have not been automatically created / generated and are used in the example implementation.

#### 4.1.1. Domains

ZZ\_RATING\_TASK

Domain: ZZ\_RATING\_TASK Active

Short Description: Change Indicator for ratings

Properties Definition Value Range

Format

Data Type: CHAR Character String

No. Characters: 1

Decimal Places: 0

Output Characteristics

Output Length: 1

Convers. Routine:

☐ Sign

☐ Lower Case

Properties Definition Value Range

Single Vals

| I | Fix.Val. | Short Descript.    |
|---|----------|--------------------|
|   | I        | Insert             |
|   | U        | Update             |
|   | M        | Modify             |
|   | D        | Delete             |
|   | S        | Standard           |
|   | 1        | Logical Key Insert |
|   | 2        | Logical Key Update |
|   | 4        | Logical Key Delete |
|   | 5        | Logical Key Modify |

## ZZ\_RATING\_ID

|  |              |                  |
|--|--------------|------------------|
| Domain                                     | ZZ_RATING_ID | Active           |
| Short Description                          | Rating ID    |                  |
| <div>PropertiesDefinitionValue Range</div> |              |                  |
| Format                                     |              |                  |
| Data Type                                  | CHAR         | Character String |
| No. Characters                             | 10           |                  |
| Decimal Places                             | 0            |                  |
| Output Characteristics                     |              |                  |
| Output Length                              | 10           |                  |
| Convers. Routine                           | ALPHA        |                  |
| <input type="checkbox"/> Sign              |              |                  |
| <input type="checkbox"/> Lower Case        |              |                  |

## ZZ\_RATING\_COMMENT

|  |                   |                  |
|--|-------------------|------------------|
| Domain   | ZZ_RATING_COMMENT | Active           |
| Short Description                              | Rating comment    |                  |
| <div>PropertiesDefinitionValue Range</div>     |                   |                  |
| Format   |                   |                  |
| Data Type                                      | CHAR              | Character String |
| No. Characters                                 | 60                |                  |
| Decimal Places                                 | 0                 |                  |
| Output Characteristics                         |                   |                  |
| Output Length                                  | 60                |                  |
| Convers. Routine                               |                   |                  |
| <input type="checkbox"/> Sign                  |                   |                  |
| <input checked="" type="checkbox"/> Lower Case |                   |                  |

#### 4.1.2. Data Elements

**ZZ\_RATING\_TASK**

|  |                              |                              |
|--|------------------------------|------------------------------|
| Data element   | ZZ_RATING_TASK               | Active                       |
| Short Description  | Change Indicator for ratings |                              |
| <div>AttributesData TypeFurther CharacteristicsField Label</div> |                              |                              |
| <input checked="" type="radio"/> Elementary Type                 |                              |                              |
| <input checked="" type="radio"/> Domain                          |                              |                              |
|  | ZZ_RATING_TASK               | Change Indicator for ratings |
| Data Type  | CHAR                         | Character String             |
| Length   | 1                            |                              |

**ZZ\_RATING\_ID**

|  |              |                  |
|--|--------------|------------------|
| Data element   | ZZ_RATING_ID | Active           |
| Short Description  | Rating ID    |                  |
| <div>AttributesData TypeFurther CharacteristicsField Label</div> |              |                  |
| <input checked="" type="radio"/> Elementary Type                 |              |                  |
| <input checked="" type="radio"/> Domain                          |              |                  |
|  | ZZ_RATING_ID | Rating ID        |
| Data Type  | CHAR         | Character String |
| Length   | 10           |                  |

**ZZ\_RATING\_COMMENT**

|  |                   |                  |
|--|-------------------|------------------|
| Data element   | ZZ_RATING_COMMENT | Active           |
| Short Description  | Rating comment    |                  |
| <div>AttributesData TypeFurther CharacteristicsField Label</div> |                   |                  |
| <input checked="" type="radio"/> Elementary Type                 |                   |                  |
| <input checked="" type="radio"/> Domain                          |                   |                  |
|  | ZZ_RATING_COMMENT | Rating comment   |
| Data Type  | CHAR              | Character String |
| Length   | 60                |                  |

#### 4.1.3. Structures

The structures listed here are relevant for updating the database table ZSUPPLIER\_RATING. The assumption is that those structures already exist in a customer system.

## ZSUPPLIER\_RATING\_KEY

Structure ZSUPPLIER\_RATING\_KEY Active

Short Description ERP Supplier Rating / Key Fields

Attributes Components Entry help/check Currency/quantity fields

1 / 1

| Component | Typing Method | Component Type | Data Type | Length | Deci... | Short Description |
|-----------|---------------|----------------|-----------|--------|---------|-------------------|
| RATING_ID | 1 Types       | ZZ_RATING_ID   | CHAR      | 10     | 0       | Rating ID         |

## ZSUPPLIER\_RATING\_DATA

Structure ZSUPPLIER\_RATING\_DATA Active

Short Description Rating ERP Supplier / Data-fields

Attributes Components Entry help/check Currency/quantity fields

1 / 1

| Component | Typing Method | Component Type     | Data Type | Length | Deci... | Short Description |
|-----------|---------------|--------------------|-----------|--------|---------|-------------------|
| RATING    | 1 Types       | ZZ_RATING_COMME... | CHAR      | 60     | 0       | Rating comment    |

## ZSUPPLIER\_RATING\_DATA\_X

Structure ZSUPPLIER\_RATING\_DATA\_X Active

Short Description Rating ERP Supplier / X-Fields

Attributes Components Entry help/check Currency/quantity fields

1 / 1

| Component | Typing Method | Component Type | Data Type | Length | Deci... | Short Description                              |
|-----------|---------------|----------------|-----------|--------|---------|--|
| RATING    | 1 Types       | BAPIUPDATE     | CHAR      | 1      | 0       | Updated information in related user data field |

## ZEI\_SUPPLIER\_RATING

Structure ZEI\_SUPPLIER\_RATING Active

Short Description Rating ERP Supplier

Attributes Components Entry help/check Currency/quantity fields

1 / 4

| Component | Typing Method | Component Type          | Data Type | Length | Deci... | Short Description                 |
|-----------|---------------|-------------------------|-----------|--------|---------|-----------------------------------|
| TASK      | 1 Types       | ZZ_RATING_TASK          | CHAR      | 1      | 0       | Change Indicator for ratings      |
| DATA_KEY  | 1 Types       | ZSUPPLIER_RATING_KEY    | ...       | 0      | 0       | ERP Supplier Rating / Key Fields  |
| DATA      | 1 Types       | ZSUPPLIER_RATING_DATA   | ...       | 0      | 0       | Rating ERP Supplier / Data-fields |
| DATA_X    | 1 Types       | ZSUPPLIER_RATING_DATA_X | ...       | 0      | 0       | Rating ERP Supplier / X-Fields    |

## ZEI\_SUPPLIER\_RATING\_S

Structure: ZEI\_SUPPLIER\_RATING\_S Active

Short Description: Rating for ERP Supplier

Attributes Components Entry help/check Currency/quantity fields

Predefined Type 1 / 2

| Component       | Typing Method | Component Type        | Data Type | Length | Deci... | Short Description                                 |
|-----------------|---------------|-----------------------|-----------|--------|---------|---|
| ZZCURRENT_STATE | 1 Types       | CVI_EI_CURRENT_STATE  | CHAR      | 1      |         | 0 External Interface: Indicator for Complete Data |
| ZZ_RATING       | 1 Types       | ZEI_SUPPLIER_RATING_T |           | 0      |         | 0 Rating for ERP Suppliers                        |

Structure: ZEI\_SUPPLIER\_RATING\_S Active

Short Description: Rating for ERP Supplier

Attributes Components Entry help/check Currency/quantity fields

Search Help 1 / 2

| Component       | Typing Method | Component Type     | Data T... | Foreign ...              | Check table | Origin of the input help     | Srch Help | D... Domain                               |
|-----------------|---------------|--------------------|-----------|--------------------------|-------------|------------------------------|-----------|---|
| ZZCURRENT_STATE | 1 Types       | CVI_EI_CURRENT...  | CHAR      | <input type="checkbox"/> |             | Input help with fixed values |           | <input checked="" type="checkbox"/> XFELD |
| ZZ_RATING       | 1 Types       | ZEI_SUPPLIER_RA... |           | <input type="checkbox"/> |             |                              |           | <input type="checkbox"/>                  |

## ZAPP\_SUPPLIER\_RATING

Append Structure: ZAPP\_SUPPLIER\_RATING Active

Short Description: Append for ERP Supplier Rating

Attributes Components Entry help/check Currency/quantity fields

Predefined Type Show Appending Obj 1 / 1

| Component | Typing Method | Component Type     | Data Type | Length | Deci... | Short Description         |
|-----------|---------------|--------------------|-----------|--------|---------|---------------------------|
| RATING    | 1 Types       | ZEI_SUPPLIER_RA... |           | 0      |         | 0 Rating for ERP Supplier |

Structure: VMDS\_EI\_CENTRAL\_DATA Active

Short Description: External Interface: Central Data

Appends for VMDS\_EI\_CENTRAL\_DATA

| Object Name          | Status | Short text                     |
|----------------------|--------|--------------------------------|
| ZAPP_SUPPLIER_RATING | Active | Append for ERP Supplier Rating |

### 4.1.4. Table types

## ZEI\_SUPPLIER\_RATING\_T

Table Type: ZEI\_SUPPLIER\_RATING\_T Active

Short text: Rating for ERP Suppliers

Attributes Line Type Initialization and Access Primary Key Secondary Key

Line Type: ZEI\_SUPPLIER\_RATING



#### 4.1.5. Database tables

**ZSUPPLIER\_RATING**

Transparent Table **ZSUPPLIER\_RATING** Active

Short Description ERP Supplier: Ratings

Attributes Delivery and Maintenance **Fields** Entry help/check Currency/Quantity Fields

Field Key Ini... Data element Data Type Length Deci... Short Description

|           |                                     |                                     |                    |      |    |   |                                      |
|-----------|-------------------------------------|-------------------------------------|--------------------|------|----|---|--------------------------------------|
| MANDT     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | MANDT              | CLNT | 3  | 0 | Client                               |
| LIFNR     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | LIFNR              | CHAR | 10 | 0 | Account Number of Vendor or Creditor |
| ZSUPP_RAT | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ZZ_RATING_ID       | CHAR | 10 | 0 | Rating ID                            |
| SUPP_RAT  | <input type="checkbox"/>            | <input type="checkbox"/>            | ZZ_RATING_COMME... | CHAR | 60 | 0 | Rating comment                       |

Transparent Table **ZSUPPLIER\_RATING** Active

Short Description ERP Supplier: Ratings

Attributes Delivery and Maintenance **Fields** Entry help/check Currency/Quantity Fields

Field Data element Data T... Foreign ... Check table Origin of the input help Srch Help D... Domain

|           |                    |      |                                     |      |                                  |      |   |
|-----------|--------------------|------|-------------------------------------|------|----------------------------------|------|---|
| MANDT     | MANDT              | CLNT | <input type="checkbox"/>            |      |                                  |      | <input type="checkbox"/> MANDT              |
| LIFNR     | LIFNR              | CHAR | <input checked="" type="checkbox"/> | LFA1 | Input help implemented with c... | KRED | <input type="checkbox"/> LIFNR              |
| ZSUPP_RAT | ZZ_RATING_ID       | CHAR | <input type="checkbox"/>            |      |                                  |      | <input type="checkbox"/> ZZ_RATING_ID       |
| SUPP_RAT  | ZZ_RATING_COMME... | CHAR | <input type="checkbox"/>            |      |                                  |      | <input type="checkbox"/> ZZ_RATING_COMME... |

Transparent Table **ZSUPPLIER\_RATING** Active

Short Description ERP Supplier: Ratings

Attributes Delivery and Maintenance **Fields** Entry help/check Currency/Quantity Fields

Delivery Class **A** Application table (master and transaction data)

Data Browser/Table View Maint. Display/Maintenance Allowed with Restrictions

#### 4.2. Sample Source Code

##### 4.2.1. Sample source code data access class

The customer data access class for Business Partner must inherit from CL\_MDC\_DATA\_BP.

Class/Interface **ZCL\_MDC\_DATA\_BP** Implemented / Active

Properties Interfaces Friends Attributes Methods Events Types Aliases

Superclass Undo inheritance Change Inheritance

Superclass **CL\_MDC\_DATA\_BP** ☐ Modeled only

Description tmp

Inst.Generation 2 Public

☐ Final

## Method Redefinitions

### TABLE\_NAME\_BY\_TYPE

```
METHOD if_mdc_data~table_name_by_type.
  rv_table_name = super->if_mdc_data~table_name_by_type( iv_type ).
  CHECK me->table_name = 'ZSUPPLIER_RATING'.
  CASE iv_type.
    WHEN if_mdc_data=>gc_type-source.
      rv_table_name+12(4) = if_mdc_data=>gc_suffix-source.
    WHEN if_mdc_data=>gc_type-process.
      rv_table_name+12(4) = if_mdc_data=>gc_suffix-process.
  ENDCASE.
ENDMETHOD.
```

### APPEND\_ACTIVE\_RECORDS

```
METHOD if_mdc_data~append_active_records.
  DATA lt_bp_source_keys TYPE tt_bp_source_keys.

  CHECK me->process_relevant = abap_true.
  CHECK it_source_keys IS NOT INITIAL.
  lt_bp_source_keys = CONV #( it_source_keys ).

  CASE me->table_name.
    WHEN 'ZSUPPLIER_RATING'.
      me->append_supplier_data( lt_bp_source_keys ).
    WHEN OTHERS.
      super->if_mdc_data~append_active_records( it_source_keys ).
  ENDCASE.

ENDMETHOD.
```

#### 4.2.2. Sample source code model implementation class

The customer model implementation class for Business Partner must inherit from CL\_MDC\_MODEL\_BP.

| Class/Interface  | ZCL_MDC_MODEL_BP | Implemented / Active                  |
|--|------------------|---------------------------------------|
| Properties   | Interfaces       | Friends                               |
| Attributes   | Methods          | Events                                |
| Types  | Aliases          |                                       |
| <div> <div>Superclass</div> <div>Undo inheritance</div> <div>Change Inheritance</div> </div> |                  |                                       |
| Superclass   | CL_MDC_MODEL_BP  | <input type="checkbox"/> Modeled only |
| Description  | tmp              |                                       |
| Inst.Generation  | 2 Public         |                                       |
| <input type="checkbox"/> Final   |                  |                                       |

## Method Redefinitions

### READ\_ALL\_DATA

```
METHOD read_all_data.

  CALL METHOD super->read_all_data
    EXPORTING
      it_source_keys      = it_source_keys
      iv_package_number = iv_package_number.
```

```

me->mr_zsupplier_rating_prc = CAST #( me->object( 'ZSUPPLIER_RATING' )->
read( it_source_keys = it_source_keys iv_package_number = iv_package_number ) ).

ENDMETHOD.

```

## MAP\_EXTENSIONS\_2API

```

METHOD map_extensions_2api.
  DATA ls_supp_rating_cvi TYPE zei_supplier_rating.

  FIELD-SYMBOLS <ls_supp_rating> TYPE zsupplier_ra_prc.

  " Extension Supplier Rating:
  DATA(lt_supp_rating) = VALUE zmdc_tt_zsupplier_ra_prc( FOR zsupplier_rating IN me
->mr_zsupplier_rating_prc->*
    WHERE ( process_key = is_but000_prc-process_key ) ( zsupplier_rating ) ).

  LOOP AT lt_supp_rating ASSIGNING <ls_supp_rating>.
    IF cs_cvi_ei_extrn-vendor-header-object_task = 'I'.
      ls_supp_rating_cvi-task = 'I'.
    ELSE.
      ls_supp_rating_cvi-task = 'M'.
    ENDIF.

    ls_supp_rating_cvi-data_key-rating_id = <ls_supp_rating>-zsupp_rat.
    ls_supp_rating_cvi-data-rating = <ls_supp_rating>-supp_rat.
    ls_supp_rating_cvi-datax-rating = abap_true.

    APPEND ls_supp_rating_cvi TO cs_cvi_ei_extrn-vendor-central_data-rating-
zz_rating.
    CLEAR ls_supp_rating_cvi.
  ENDLOOP.

  cs_cvi_ei_extrn-vendor-central_data-rating-zzcurrent_state = abap_true.

ENDMETHOD.

```

## SAVE\_BUSINESS\_PARTNER\_ACTIVE

```

METHOD save_business_partner_active.
  DATA lt_cvi_ei_extrn      TYPE cvis_ei_extrn_t.
  DATA lv_parnter          TYPE bu_partner.
  DATA lr_fsbp_object      TYPE REF TO fsbp_bo_cvi.
  DATA lv_lifnr            TYPE lifnr.

  DATA lt_current_supp_rat TYPE TABLE OF zsupplier_rating.
  DATA lt_db_supp_rat      TYPE TABLE OF zsupplier_rating.
  DATA ls_db_supp_rat      TYPE zsupplier_rating.
  DATA ls_supp_rat_data    TYPE zsupplier_rating.
  DATA lt_supp_rat_ins     TYPE TABLE OF zsupplier_rating.
  DATA lt_supp_rat_upd     TYPE TABLE OF zsupplier_rating.
  DATA lt_supp_rat_del     TYPE TABLE OF zsupplier_rating.
  DATA lt_supp_rat_mod     TYPE TABLE OF zsupplier_rating.

  FIELD-SYMBOLS <ls_cvi_extrn> LIKE LINE OF mt_cvi_ei_extrn.
  FIELD-SYMBOLS <ls_cvi_ext>   TYPE cvis_ei_extrn.

```

```

FIELD-SYMBOLS <ls_bp_keys>          LIKE LINE OF mt_bp_keys.
FIELD-SYMBOLS <ls_supp_rat>         TYPE zei_supplier_rating.
FIELD-SYMBOLS <ls_supp_rat_data>    TYPE zsupplier_rating.
FIELD-SYMBOLS <ls_supp_rat_db>      TYPE zsupplier_rating.

super->save_business_partner_active( ).

LOOP AT me->mt_cvi_ei_extern ASSIGNING <ls_cvi_extern>
      WHERE target = '1'.
  APPEND <ls_cvi_extern>-data TO lt_cvi_ei_extern.
ENDLOOP.

LOOP AT lt_cvi_ei_extern ASSIGNING <ls_cvi_ext>.
  CLEAR lv_parnter.

  READ TABLE me->mt_bp_keys ASSIGNING <ls_bp_keys>
    WITH KEY partner_guid = CONV bu_partner_guid( <ls_cvi_ext>-partner-header-
object_instance-bpartnerguid ).

  CHECK sy-subrc = 0.
  IF <ls_bp_keys>-partner IS INITIAL.
    CALL FUNCTION 'BUPA_NUMBERS_GET'
      EXPORTING
        iv_partner_guid = CONV bu_partner_guid( <ls_cvi_ext>-partner-header-
object_instance-bpartnerguid )
      IMPORTING
        ev_partner      = lv_parnter.
  ENDIF.

*   get standard supplier
  lr_fsbp_object ?= fsbp_business_factory=>get_instance( i_partner = lv_parnter )
  .

  IF lr_fsbp_object IS BOUND.
    lv_lifnr = lr_fsbp_object->vendor->get_vendor( ).
    lv_kunnr = lr_fsbp_object->customer->get_customer( ).
  ENDIF.

*   get DB-state before update
  IF lv_lifnr IS NOT INITIAL.
    SELECT * FROM zsupplier_rating INTO TABLE lt_db_supp_rat
      WHERE lifnr = lv_lifnr.
  ENDIF.

*   current data
  LOOP AT <ls_cvi_ext>-vendor-central_data-rating-
zz_rating ASSIGNING <ls_supp_rat>.
    CLEAR ls_supp_rat_data.
    IF <ls_cvi_ext>-vendor-header-object_instance-lifnr IS INITIAL.
      ls_supp_rat_data-lifnr = lv_lifnr.
    ELSE.
      ls_supp_rat_data-lifnr = <ls_cvi_ext>-vendor-header-object_instance-lifnr.
    ENDIF.

    ls_supp_rat_data-zsupp_rat = <ls_supp_rat>-data_key-rating_id.
    ls_supp_rat_data-supp_rat = <ls_supp_rat>-data-rating.
    CASE <ls_supp_rat>-task.
      WHEN 'D'.

```

```

        APPEND ls_supp_rat_data TO lt_supp_rat_del.
    WHEN 'I'.
        APPEND ls_supp_rat_data TO lt_supp_rat_ins.
    WHEN 'U'.
        APPEND ls_supp_rat_data TO lt_supp_rat_upd.
    WHEN 'M'.
        APPEND ls_supp_rat_data TO lt_supp_rat_mod.
    ENDCASE.
ENDLOOP.

lt_current_supp_rat = lt_db_supp_rat.

*   merge
*   Deletes
    LOOP AT lt_supp_rat_del ASSIGNING <ls_supp_rat_data>.
        READ TABLE lt_current_supp_rat WITH KEY lifnr      = <ls_supp_rat_data>-lifnr
                                                zsupp_rat = <ls_supp_rat_data>-
zsupp_rat
                                                ASSIGNING <ls_supp_rat_db>.

        IF sy-subrc = 0.
*       delete record in target table
            DELETE lt_current_supp_rat INDEX sy-tabix.
        ELSE.
*       record doesn't exist on DB -
*       > must be a new one, keep data to be checked consistent
            READ TABLE lt_supp_rat_ins WITH KEY lifnr      = <ls_supp_rat_data>-lifnr
                                                zsupp_rat = <ls_supp_rat_data>-
zsupp_rat
                                                ASSIGNING <ls_supp_rat_db>.

            IF sy-subrc = 0.
                DELETE lt_current_supp_rat INDEX sy-tabix.
            ENDIF.
        ENDIF.
    ENDLOOP.

*   Inserts
    LOOP AT lt_supp_rat_ins ASSIGNING <ls_supp_rat_data>.
        READ TABLE lt_current_supp_rat WITH KEY lifnr      = <ls_supp_rat_data>-lifnr
                                                zsupp_rat = <ls_supp_rat_data>-
zsupp_rat
                                                ASSIGNING <ls_supp_rat_db>.

*       insert record into target table
        IF sy-subrc <> 0.
            INSERT <ls_supp_rat_data> INTO TABLE lt_current_supp_rat.
        ENDIF.
    ENDLOOP.

*   Updates
    LOOP AT lt_supp_rat_upd ASSIGNING <ls_supp_rat_data>.
        READ TABLE lt_current_supp_rat WITH KEY lifnr      = <ls_supp_rat_data>-lifnr
                                                zsupp_rat = <ls_supp_rat_data>-
zsupp_rat
                                                ASSIGNING <ls_supp_rat_db>.

*       insert record into target table
        IF sy-subrc = 0.
            <ls_supp_rat_db> = <ls_supp_rat_data>.

```

```

ENDIF.
ENDLOOP.

*   Modify
LOOP AT lt_supp_rat_mod ASSIGNING <ls_supp_rat_data>.
    READ TABLE lt_current_supp_rat WITH KEY lifnr      = <ls_supp_rat_data>-lifnr
                                zsupp_rat = <ls_supp_rat_data>-
zsupp_rat
                                ASSIGNING <ls_supp_rat_db>.

*   insert record into target table
IF sy-subrc = 0.
    <ls_supp_rat_db> = <ls_supp_rat_data>.
ELSE.
    INSERT <ls_supp_rat_data> INTO TABLE lt_current_supp_rat.
ENDIF.
ENDLOOP.

CALL FUNCTION 'Z_SUPP_RATING_UPDATE' IN UPDATE TASK
TABLES
    x_supp_ratings = lt_current_supp_rat
    y_supp_ratings = lt_db_supp_rat.

ENDMETHOD.

```

#### 4.2.3. Sample BAdI Implementation class

**ZCL\_MDC\_2\_MDG**

Class/Interface: **ZCL\_MDC\_2\_MDG** Implemented / Active

Properties Interfaces Friends Attributes Methods Events Types Aliases

Superclass Undo inheritance Change Inheritance

Description: Class for BAdI Impl.: ZOV\_BRC\_TEST\_IMPLEMENTATION

Inst.Generation: 2 Public

☒ Final

---

Class/Interface: **ZCL\_MDC\_2\_MDG** Implemented / Active (revised)

Properties Interfaces Friends Attributes Methods Events Types Aliases

Filter

| Attribute   | Level    | Visibility | R...                              | Typing | Associated Type               | Description |
|-------------|----------|------------|-----------------------------------|--------|-------------------------------|-------------|
| MO_SUPPLIER | Instance | Protected  | <input type="checkbox"/> Type Ref | ...    | CL_MDG_BS_SUPP_CR_SI_ERP_IMPL |             |

| Class/Interface   |                 | ZCL_MDC_2_MDG |      | Implemented / Active  |  |
|---|-----------------|---------------|------|---|--|
| Properties  |                 | Interfaces    |      | Friends   |  |
| Attributes  |                 | Methods       |      | Events  |  |
| Types   |                 | Aliases       |      |   |  |
| <div><div><input type="checkbox"/> Parameters</div><div> Exceptions</div><div> Sourcecode</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div><input type="checkbox"/> Filter</div></div> |                 |               |      |   |  |
| Method  | Level           | Visibility    | M... | Description   |  |
| IF_MDG_BS_CUST_SUPP_CR_SI>  |                 |               |      |   |  |
| SET_SUPPLIER_DATA_2_STA   | Instance Method | Public        |      | Set Supplier Data into ChangeRequest API for staging area   |  |
| MAP_BP_TO_STAGING_WO_CR   | Instance Method | Public        |      | Map Supplier/Customer to Staging w/o change request (MDGee) |  |
| CONSTRUCTOR   | Instance Method | Public        |      | CONSTRUCTOR   |  |
| CALCULATE_DELETIONS   | Instance Method | Protected     |      | Calculates deletions for entities                           |  |

## Method Implementations

### CONSTRUCTOR

```
METHOD constructor.
  CREATE OBJECT mo_supplier.
ENDMETHOD.
```

### CALCULATE\_DELETIONS

```
METHOD calculate_deletions.
*** Read the existing active data via governance API. Compare the result
*** with the incoming data. Since the incoming data is current state,
*** existing data that is not part of the incoming data should be deleted.
DATA:
  lt_return_messages TYPE bapirettab,
  lt_usmd_message    TYPE usmd_t_message,
  lv_index           TYPE i.

FIELD-SYMBOLS:
  <ls_data>          TYPE any,
  <lv_assignment>    TYPE any,
  <lv_bp_header>     TYPE any,
  <lv_supp_rat_id>   TYPE any.

TRY.
*   read data
  ir_gov_api->read_entity(
    EXPORTING
      iv_entity_name   = iv_entity_name
      it_key           = it_key
      iv_crequest_id   = iv_crequest_id
      if_active_data   = abap_true
    IMPORTING
      et_data          = et_delete ).

*   compare with incoming data
  IF et_delete IS NOT INITIAL.
    LOOP AT it_data ASSIGNING <ls_data>.
      CLEAR lv_index.
*     get keys
      ASSIGN COMPONENT:
        'BP_HEADER' OF STRUCTURE <ls_data> TO <lv_bp_header>,
        if_mdg_bs_ecc_bp_constants=>gc_ma_field-
assignment_id_mdg OF STRUCTURE <ls_data> TO <lv_assignment>,
        'ZSUPP_RAT' OF STRUCTURE <ls_data> TO <lv_supp_rat_id>.
```

```

        CHECK: <lv_bp_header> IS ASSIGNED.

*      read each entity with respect to keys only
CASE iv_entity_name.
    WHEN 'ZSUPP_RAC'.
        CHECK: <lv_assignment> IS ASSIGNED,
              <lv_supp_rat_id> IS ASSIGNED.

        READ TABLE et_delete TRANSPORTING NO FIELDS
        WITH KEY
            (if_mdg_bs_ecc_bp_constants=>gc_ma_field-
assignment_id_mdg) = <lv_assignment>
            ('BP_HEADER') = <lv_bp_header>
            ('ZSUPP_RAT') = <lv_supp_rat_id>.

        IF sy-subrc EQ 0.
            lv_index = sy-tabix.
        ENDIF.

    WHEN OTHERS.
        CONTINUE.
ENDCASE.

*      cleanup
UNASSIGN: <lv_assignment>,
         <lv_bp_header>,
         <lv_bp_rat_id>,
         <lv_cust_rat_id>,
         <lv_supp_rat_id>.

*      delete
CHECK lv_index NE 0.
DELETE et_delete INDEX lv_index.
ENDLOOP.
ENDIF.

*      error handling
CATCH cx_usmd_gov_api_core_error cx_usmd_gov_api.
    lt_usmd_message = ir_gov_api->get_messages( ).
    IF lt_usmd_message IS NOT INITIAL.
        CALL METHOD cl_mdg_bp_2_staging=>map_usmd_mess_to_bapiret
        EXPORTING
            it_usmd_message = lt_usmd_message
        IMPORTING
            et_bapirettab   = lt_return_messages.
        APPEND LINES OF lt_return_messages TO ct_return_messages.
    ENDIF.
ENDTRY.
ENDMETHOD.

```

#### IF\_MDG\_BS\_CUST\_SUPP\_CR\_SI~SET\_SUPPLIER\_DATA\_2\_STA

```

METHOD if_mdg_bs_cust_supp_cr_si~set_supplier_data_2_sta.
    DATA: ls_bp          TYPE mdg_bs_bp_s_extern,
           lv_bp_header   TYPE bu_businesspartner,
           lv_bp_exists   TYPE abap_bool,

```



```

ls_return_message TYPE bapiret2,
lt_return_messages TYPE bapirettab,
lt_usmd_message TYPE usmd_t_message.

DATA: ls_sta_zsupp_rac TYPE zzoli_s_bp_pp_zsupp_rac,
      lt_sta_zsupp_rac TYPE STANDARD TABLE OF zzoli_s_bp_pp_zsupp_rac.

DATA: lt_del_zsupp_rac TYPE STANDARD TABLE OF zzoli_s_bp_pp_zsupp_rac,
      lt_key_zsupp_rac TYPE STANDARD TABLE OF zzoli_s_bp_pp_zsupp_rac.

DATA: lt_entities TYPE STANDARD TABLE OF usmd_entity,
      lv_entity TYPE usmd_entity.

FIELD-SYMBOLS: <lt_data> TYPE ANY TABLE,
               <lt_delete> TYPE ANY TABLE.

FIELD-SYMBOLS: <ls_supp_rating> TYPE zei_supplier_rating.

```

```

mo_supplier->if_mdg_bs_cust_supp_cr_si~set_supplier_data_2_sta(
  EXPORTING is_bp_api = is_bp_api
            ir_cr_api = ir_cr_api
            ir_gov_api = ir_gov_api
            iv_crequest_id = iv_crequest_id
            iv_temp_sta_bp_id = iv_temp_sta_bp_id
  CHANGING ct_return_messages = ct_return_messages ).

```

\*\*\* APIs MUST be provided, otherwise the processing doesn't make sense.

```
IF NOT ir_gov_api IS BOUND.
```

\* should never happen at this point in time

```

ls_return_message-type = 'E'.
ls_return_message-id = 'MDG_BS_BP_DATAREPL'.
ls_return_message-number = '10'.
APPEND ls_return_message TO ct_return_messages.
RETURN.
ENDIF.

```

\* 1) move input into local structure

```
ls_bp = is_bp_api.
```

```
IF ls_bp-partner-header-object_instance-bpartner IS NOT INITIAL.
  lv_bp_header = ls_bp-partner-header-object_instance-bpartner.

```

```

CALL FUNCTION 'BUPA_EXISTENCE_CHECK'
  EXPORTING
    iv_partner = ls_bp-partner-header-object_instance-bpartner
  TABLES
    et_return = lt_return_messages.

```

```

LOOP AT lt_return_messages TRANSPORTING NO FIELDS WHERE type CA 'EAX'.
  lv_bp_exists = abap_false.
  EXIT.
ENDLOOP.

```

```

IF sy-subrc NE 0.
  lv_bp_exists = abap_true.
ENDIF.

```

```

ELSEIF iv_temp_sta_bp_id IS NOT INITIAL.
  lv_bp_header = iv_temp_sta_bp_id.

```

```

        lv_bp_exists = abap_false.
ELSE.
        lv_bp_exists = abap_false.
ENDIF.

* 2) map data
*   supplier rating
        LOOP AT ls_bp-vendor-central_data-rating-
zz_rating ASSIGNING <ls_supp_rating>.
            ls_sta_zsupp_rac-bp_header = lv_bp_header.
            ls_sta_zsupp_rac-
assgnm_id = if_mdg_bs_ecc_bp_constants=>gc_sp_std_mlt_assignment_id.
            ls_sta_zsupp_rac-zsupp_rat = <ls_supp_rating>-data_key-rating_id.
            ls_sta_zsupp_rac-supp_rat = <ls_supp_rating>-data-rating.

            APPEND ls_sta_zsupp_rac TO lt_sta_zsupp_rac.
        ENDLOOP.

*   prepare key for reading all
        IF ls_bp-vendor-central_data-rating-zzcurrent_state EQ abap_true
            AND lv_bp_exists EQ abap_true.
            CLEAR ls_sta_zsupp_rac.
            ls_sta_zsupp_rac-bp_header = lv_bp_header.
            ls_sta_zsupp_rac-
assgnm_id = if_mdg_bs_ecc_bp_constants=>gc_sp_std_mlt_assignment_id.
            APPEND ls_sta_zsupp_rac TO lt_key_zsupp_rac.
        ENDIF.

*** Check for deletions (starting with MDG 6.1). It might be possible that
*** some segments are deleted on the client. Keys to be used are the multiple
*** assignment keys!
        IF cl_mdg_bs_cust_switch_check=>mdg_bs_ecc_cust_switch_61( ) EQ abap_true.

*   supplier rating
        IF lt_key_zsupp_rac IS NOT INITIAL.
            me->calculate_deletions(
                EXPORTING
                    ir_gov_api          = ir_gov_api
                    it_data              = lt_sta_zsupp_rac
                    it_key               = lt_key_zsupp_rac
                    iv_crequest_id       = iv_crequest_id
                    iv_entity_name       = 'ZSUPP_RAC'
                IMPORTING
                    et_delete            = lt_del_zsupp_rac
                CHANGING
                    ct_return_messages = ct_return_messages ).
            ENDIF.
        ENDIF.

*** Writing a supplier to staging with the governance API consists of
*** writing new or changed data and deleting deleted data. The executed API
*** methods are always identical. Therefore the processing can be done in
*** a loop over the entities that actually have data to be written / deleted.
** Determine entities to handle

* check: supplier rating
        IF lt_sta_zsupp_rac[] IS NOT INITIAL
            OR lt_del_zsupp_rac[] IS NOT INITIAL.
            APPEND 'ZSUPP_RAC' TO lt_entities.

```

```

ENDIF.

** Loop over the collected entities to write or delete in staging.
LOOP AT lt_entities INTO lv_entity.
  TRY.
    * 1. prepare the data
    UNASSIGN: <lt_data>, <lt_delete>.
    CASE lv_entity.
      WHEN 'ZSUPP_RAC'.
        ASSIGN lt_sta_zsupp_rac TO <lt_data>.
        ASSIGN lt_del_zsupp_rac TO <lt_delete>.
      WHEN OTHERS.
    ENDCASE.

    * 2. delete data reference in staging
    IF <lt_delete> IS ASSIGNED
      AND <lt_delete> IS NOT INITIAL.
      CALL METHOD ir_gov_api->delete_entity
        EXPORTING
          iv_crequest_id = iv_crequest_id
          iv_entity_name = lv_entity
          it_data         = <lt_delete>.
    ENDIF.

    * 3. write data reference to staging
    IF <lt_data> IS ASSIGNED
      AND <lt_data> IS NOT INITIAL.
      CALL METHOD ir_gov_api->write_entity
        EXPORTING
          iv_crequest_id = iv_crequest_id
          iv_entity_name = lv_entity
          it_data         = <lt_data>.
    ENDIF.

    * error handling
    CATCH cx_usmd_gov_api_core_error cx_usmd_gov_api.
      lt_usmd_message = ir_gov_api->get_messages( ).
      IF lt_usmd_message[] IS NOT INITIAL.
        CALL METHOD cl_mdg_bp_2_staging=>map_usmd_mess_to_bapiret
          EXPORTING
            it_usmd_message = lt_usmd_message
          IMPORTING
            et_bapirettab   = lt_return_messages.
        APPEND LINES OF lt_return_messages TO ct_return_messages.
        CLEAR lv_entity.
        REFRESH: lt_usmd_message, lt_return_messages.
      ENDIF.
    ENDTRY.
  ENDLOOP. " end handle entities

ENDMETHOD.

```

#### 4.2.4. Sample Update function module

To update the customer table ZSUPPLIER\_RATING function module Z\_SUPP\_RATING\_UPDATE is used in this example.

Z\_SUPP\_RATING\_UPDATE

Function module

Z\_SUPP\_RATING\_UPDATE

Active

Attributes

Import

Export

Changing

Tables

Exceptions

Source code

Classification

Function Group

Z\_MDC\_EXTENSION

MDC Extension Test

Short Text

Update ERP Supplier Ratings

Processing Type

☐ Normal Function Module

☐ Remote-Enabled Module

☒ Update Module

☐ Start immed.

☐ Immediate Start, No Restart

☐ Start Delayed

☐ Coll.run

☐ BasXML supported

```
FUNCTION Z_SUPP_RATING_UPDATE.  
* "-----  
* ""Update Function Module:  
* "  
* ""Local Interface:  
* "  TABLES  
* "      X_SUPP_RATINGS STRUCTURE ZSUPPLIER_RATING  
* "      Y_SUPP_RATINGS STRUCTURE ZSUPPLIER_RATING  
* "-----  
  
  DATA: ls_y_supp_rating TYPE zsupplier_rating.  
  
  LOOP AT y_supp_ratings INTO ls_y_supp_rating.  
    READ TABLE x_supp_ratings WITH KEY lifnr      = ls_y_supp_rating-lifnr  
                                           zsupp_rat = ls_y_supp_rating-  
zsupp_rat.  
  
    IF sy-subrc <> 0.  
      DELETE FROM zsupplier_rating WHERE lifnr      = ls_y_supp_rating-lifnr  
                                AND zsupp_rat = ls_y_supp_rating-  
zsupp_rat.  
  
      IF sy-subrc <> 0.  
        MESSAGE x000(zcustomer_rating).  
      ENDIF.  
    ENDIF.  
  ENDLOOP.  
  
  MODIFY zsupplier_rating FROM TABLE x_supp_ratings. "Current State  
  IF sy-subrc <> 0.  
    MESSAGE x000(zcustomer_rating).  
  ENDIF.  
  
ENDFUNCTION.
```

## 5. ADDITIONAL INFORMATION

### 5.1. Further Reading

#### Information on SAP MDG on SAP S/4HANA

- Exchange knowledge: [SAP Community](#) | [Q&A](#) | [Blog](#)
- Try SAP Master Data Governance on S/4HANA for free: [Trial Version](#)
- Learn more: [Latest Release](#) | [Webinars](#) | [Help Portal](#) | [How-to Information](#) | [Key Presentations](#)

#### SAP Roadmap Explorer

- Please see the [roadmap for SAP Master Data Governance](#)

#### Related Information

- Learn more: [Floorplan Manager for Web Dynpro ABAP](#) | [How to Adapt FPM](#) | [FPM Blog](#) | [How-to Information](#) | [Service Mapping Tool](#) | [SAP S/4HANA Cookbook CVI](#)

### 5.2. SAP Notes

In addition to the detailed explanations written in this document, please see the following SAP Notes for further important information.

| <u>Note Number</u>      | Note Description  |
|-------------------------|---|
| <a href="#">2221398</a> | MDG-BP/C/S/CA: (Un-)Supported Fields in Data Model BP   |
|                         |   |
| <a href="#">2313368</a> | Functional restrictions in MDG for Business Partner / Customer / Supplier with SAP Master Data Governance 9.0                       |
| <a href="#">2472845</a> | Functional restrictions in MDG for Business Partner / Customer / Supplier with SAP Master Data Governance 9.1                       |
| <a href="#">2656712</a> | Functional restrictions in MDG for Business Partner / Customer / Supplier in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809 |
| <a href="#">2816557</a> | Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 1909                                       |
| <a href="#">2925030</a> | Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2020                                       |
| <a href="#">3070003</a> | Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2021                                       |
| <a href="#">3220117</a> | Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2022                                       |
| <a href="#">3194967</a> | MDG Customer Connection 2021 for S/4HANA 2022   |
| <a href="#">3043582</a> | MDG Customer Connection 2020  |
|                         |   |
| <a href="#">3134600</a> | MDG-M: Supported fields in Data Model MM  |
|                         |   |

|                                |   |
|--------------------------------|---|
| <a href="#"><u>1806108</u></a> | Functional restrictions in MDG-M in MDG7 (incl. SP02)   |
| <a href="#"><u>2129261</u></a> | Functional restrictions in MDG-M in MDG8  |
| <a href="#"><u>2284745</u></a> | Functional Restrictions in MDG for Material with SAP Master Data Governance 9.0                       |
| <a href="#"><u>2461516</u></a> | Functional Restrictions in MDG for Material with SAP Master Data Governance 9.1                       |
| <a href="#"><u>2656693</u></a> | Functional Restrictions in MDG for Material in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809 |
| <a href="#"><u>2816571</u></a> | Functional Restrictions in MDG for Material on SAP S/4HANA 1909                                       |
| <a href="#"><u>2948873</u></a> | Functional Restrictions in MDG for Material on SAP S/4HANA 2020                                       |
|                                |   |
| <a href="#"><u>3070012</u></a> | Functional Restrictions in MDG for Material on SAP S/4HANA 2021                                       |
| <a href="#"><u>3219945</u></a> | Functional Restrictions in MDG for Material on SAP S/4HANA 2022                                       |
|                                |   |
| <a href="#"><u>2479869</u></a> | Usage of Lean Classification with SAP Master Data Governance  |
| <a href="#"><u>1619534</u></a> | How to Create, Enhance and Adapt FPM Applications   |
|                                |   |
|                                |   |

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