

CDA      ZCL\_CRM\_BOR\_CASE      Release 740      System

---

Class: ZCL\_CRM\_BOR\_CASE  
Status: Active  
Inh. from: ZCL\_CRM\_BOR\_PROXY

#### Attributes

Description: BOR case  
Instantiation: Public  
Final  
Not released  
Fixed pt.arithmetic  
Program status: Customer Production Program  
Category: General Object Type  
Package: ZCRM  
Original lang.: EN  
Created by: P000520  
Created on: 15.12.2014  
Last changed by: P000520  
Last changed on: 17.12.2014

#### Attributes

##### Public attributes

Attrib.	Cat	Description	Ref. Type	Init. value
C_TYPE	Inst	Object Type	TYPE SWO_OBJTYP	'BUS20900'

---

#### Methods

##### Public methods

##### CONSTRUCTOR

Description: CONSTRUCTOR

Instance mthd

Importing parameter

VALUE(P\_KEY) TYPE SWO\_TYPEID OPTIONAL (Object key)

METHOD constructor.

CALL METHOD super->constructor

EXPORTING

p\_key = p\_key.

me->av\_type = c\_type.

ENDMETHOD.

SET\_TASK\_REFERENCE

Description: Creates a case with reference to a task and makes it this.

Instance mthd

Importing parameter

VALUE(PO\_TASK) TYPE REF TO ZCL\_CRM\_BOR\_TASK (BOR task)

VALUE(PO\_CASE) TYPE REF TO ZCL\_CRM\_BOR\_CASE OPTIONAL (BOR

case)

PT\_TASKS TYPE ZT\_CRM\_BOR\_PROXY OPTIONAL (List of BOR instances)

---

1	08.03.2015	21:08:46
---	------------	----------

---

CDA	ZCL_CRM_BOR_CASE	Release 740	System
-----	------------------	-------------	--------

---

P\_MPARTNER TYPE BU\_PARTNER (Main partner)  
 Exceptions  
 CX\_BAPI\_ERROR (BAPI Error Exception: Migrated Error Messages  
 Type "E")

```

METHOD set_task_reference.
  DATA: lt_args      TYPE          swconttab,
        lt_retr      TYPE          swconttab,
        lt_attr      TYPE          bapiproptb_t,
        lw_attr      TYPE          bapiproptb,
        lt_elem_id   TYPE          bapipropme_tab,
        lw_elem_id   TYPE          bapipropme,
        lt_elem_ins  TYPE TABLE OF bapidocins,
        lw_elem_ins  TYPE          bapidocins,
        lt_elem_att  TYPE          bapipropme_tab,
        lw_elem_att  TYPE          BAPIPROPME,
        lt_elem_rel  TYPE TABLE OF bapirelthb,
        lt_return    TYPE          bapiret2_t,
        lw_return    TYPE          bapiret2,
        lv_value     TYPE          swc_value,
        lx_error     TYPE REF TO   cx_bapi_error,
        li_counter   TYPE          int4.",
        "lt_partners TYPE          ZTT_CRM_BUS_PARTNER,
        "lw_partner  TYPE          ZST_CRM_BUS_PARTNER.
  FIELD-SYMBOLS: <lo_bor> TYPE REF TO zcl_crm_bor_proxy,
                <lv_codevl> TYPE          swc_value.
  IF me->av_objid IS NOT INITIAL.
    lw_return-type      = 'E'.
    lw_return-id        = '00'.
    lw_return-number    = 368.
    lw_return-message_v1 = 'This sample already has the
id' (M02).

```

```

        lw_return-message_v2 = me->av_objid.
        APPEND lw_return TO lt_return.
        RAISE EXCEPTION TYPE cx_bapi_error
            EXPORTING
                status = lt_return.
    ENDIF.
* Case type
    lv_value = po_task->get_child_type( ).
    swc_set_element lt_args 'CaseType' lv_value.
* Case attributes
    lw_attr-name = 'EXT_REF'.
    lw_attr-value = po_task->get_plain_attribute( 'OBJECT_ID' ).
    SHIFT lw_attr-value LEFT DELETING LEADING '0'.
    APPEND lw_attr TO lt_attr.
    lv_value = po_task->get_plain_attribute( 'DESCRIPTION' ).
    m_add_attribute: 'CASE_TITLE' lv_value,
                    'PROCESSOR' sy-uname,
                    'RESPONSIBLE' sy-uname.
    lv_value = po_task->get_plain_attribute( 'PROCESSID' ).
    m_add_attribute 'CRM_CASE_TITLE' lv_value.
    swc_set_table lt_args 'CaseAttributes' lt_attr.
* Adding Case
    IF po_case IS SUPPLIED.
        TRY.

```

---

08.03.2015

21:08:46

2

ZCL\_CRM\_BOR\_CASE                      Release 740                      System

CDA

```

        lv_value = po_case->get_plain_attribute( 'GUID' ).
        CATCH cx_bapi_error INTO lx_error.
        RAISE EXCEPTION lx_error.
    ENDTRY.
    m_add_superior_case 'CRM_SPS_CASE' lv_value 'CZ'.
ENDIF.
* Adding Main Partner
    m_add_partner 'CRM_BUSINESS_PARTNER' 'BUS1006' p_mpartner
'C1'
        space 'X'.
* Adding audited partners
*     TRY .
*         lt_partners = po_task->get_partners( ).
*         CATCH cx_bapi_error INTO lx_error.
*             RAISE EXCEPTION lx_error.
*         ENDTRY.
*         m_add_audit_partner: 'ZFILAUDI',
*                             'SOLICITA'.

```

```

        IF pt_tasks IS SUPPLIED.
* Adding tasks
* Insertion attribute
        lw_elem_ins-anchor = 'CA'.
* Relationship attribute
        LOOP AT pt_tasks ASSIGNING <lo_bor>.
* Entries identification
        m_add_element 'CRM_ACTIVITY_TASK' <lo_bor>->av_type
            <lo_bor>->av_objid 'CA'.
        ENDLOOP.
    ENDIF.
    swc_set_table: lt_args 'ElementIdentification' lt_elem_id,
                    lt_args 'ElementInsertion'      lt_elem_ins,
                    lt_args 'ElementAttributes'     lt_elem_att,
                    lt_args 'ElementRelations'     lt_elem_rel.
    TRY .
        me->call_static_method(
            EXPORTING
                p_name      = 'Create'
                pt_container = lt_args
            RECEIVING
                rt_container = lt_retr ).
        swc_get_element lt_retr 'Guid' me->av_objid.
        IF me->av_objid IS INITIAL.
            swc_get_table lt_retr 'Return' lt_return.
            RAISE EXCEPTION TYPE cx_bapi_error
            EXPORTING
                status = lt_return.
        ENDIF.
        CATCH cx_bapi_error INTO lx_error.
        RAISE EXCEPTION lx_error.
    ENDTRY.
ENDMETHOD.

```

3

08.03.2015

21:08:46

CDA

ZCL\_CRM\_BOR\_CASE

Release 740

System

REMOVE\_TASKS\_FROM\_RECORD

Description: Remove tasks from the Case Record.

Instance mthd

```

Importing parameter
  PT_RECORDS_IDS TYPE ZTT_CRM_RECORD_ID  (Record Ids)
Exporting parameter
  EXT_RETURN TYPE BAPIRET2_T  (Return parameter table)

Exceptions
  CX_BAPI_ERROR  (BAPI Error Exception: Migrated Error Messages
Type "E")

METHOD remove_tasks_from_record.
  DATA: lt_args      TYPE                swconttab,
        lt_retr      TYPE                swconttab,
        lt_recpos    TYPE STANDARD TABLE OF bapirecpos,
        lw_recpos    TYPE                bapirecpos,
        lt_sppoid    TYPE STANDARD TABLE OF bapipropme,
        lw_sppoid    TYPE                bapipropme,
        lt_elements  TYPE                bapicaseelement_tab,
        lw_element   TYPE                bapicaseelement,
        lx_error     TYPE REF TO        cx_bapi_error.
  FIELD-SYMBOLS <lw_record_id> TYPE zst_crm_record_id.
  "Getting details
  swc_set_element: lt_args 'WithVicinity' '',
                  lt_args 'WithNote'    '',
                  lt_args 'WithElement' 'X'.

  TRY .
    me->call_method_with_container(
      EXPORTING
        p_name      = 'GetDetail'
        pt_container = lt_args
      RECEIVING
        rt_container = lt_retr ).
    CATCH cx_bapi_error INTO lx_error.
      RAISE EXCEPTION lx_error.
  ENDTRY.
  swc_get_element lt_retr 'Element' lt_elements.
  SORT lt_elements BY node_id instance_id.
  "Deleting elements
  LOOP AT pt_records_ids ASSIGNING <lw_record_id>.
    lw_recpos-rec_nodeid = <lw_record_id>-rec_nodeid.
    APPEND lw_recpos TO lt_recpos.
    READ TABLE lt_elements
      WITH KEY node_id      = <lw_record_id>-rec_nodeid
              instance_id = <lw_record_id>-rec_instid
    INTO lw_element.
    IF sy-subrc = 0.
      lw_sppoid-elem_no = lw_element-elem_no.
      lw_sppoid-name   = '%SPS_ID%'.
      lw_sppoid-value  = 'CRM_ACTIVITY_TASK'.
      APPEND lw_sppoid TO lt_sppoid.
    ENDIF.
  ENDLOOP.

```

CDA                      ZCL\_CRM\_BOR\_CASE                      Release 740                      System

---

```

        SORT lt_recpos BY table_line.
        DELETE ADJACENT DUPLICATES FROM lt_recpos COMPARING
table_line.
        CLEAR: lt_args, lt_retr.
        swc_set_element: lt_args 'SkipErrors'          'X',
                           lt_args 'NewVersion'        'X',
                           lt_args 'DeleteOnlyFirst'    'X'.
        swc_set_table: lt_args 'ElementIdentRecpos' lt_recpos,
                           lt_args 'ElementIdentSpPoid' lt_sppoid.
        TRY .
            me->call_method_with_container(
                EXPORTING
                    p_name      = 'DeleteElements'
                    pt_container = lt_args
                RECEIVING
                    rt_container = lt_retr ).
            swc_get_element lt_retr 'Return' ext_return.
            m_check_for_errors.
            CATCH cx_bapi_error INTO lx_error.
            RAISE EXCEPTION lx_error.
        ENDTRY.
    ENDMETHOD.

ADD_TASKS_TO_RECORD
Description: Adds tasks to this Case Record.
Instance mthd

Importing parameter
    PT_TASKS TYPE ZT_CRM_BOR_PROXY OPTIONAL (List of BOR
instances)
Exporting parameter
    EXT_RETURN TYPE BAPIRET2_T (Return parameter table)

Exceptions
    CX_BAPI_ERROR (BAPI Error Exception: Migrated Error Messages
Type "E")
METHOD add_tasks_to_record.
    DATA: lt_args      TYPE          swconttab,
           lt_retr      TYPE          swconttab,
           lt_elem_id   TYPE          bapipropme_tab,
           lw_elem_id   TYPE          bapipropme,
           lt_elem_ins  TYPE TABLE OF bapidocins,
           lw_elem_ins  TYPE          bapidocins,
           lt_elem_att  TYPE          bapipropme_tab,
           lw_elem_att  TYPE          bapipropme,
           lt_elem_rel  TYPE TABLE OF bapireltb,
           lt_return    TYPE          bapiret2_t,
           lw_return    TYPE          bapiret2,
           lx_error     TYPE REF TO   cx_bapi_error,
           li_counter   TYPE          int4.
    FIELD-SYMBOLS <lo_bor> TYPE REF TO zcl_crm_bor_proxy.
    * Adding tasks

```

```

        LOOP AT pt_tasks ASSIGNING <lo_bor>.
* Entries identification
        m_add_element 'CRM_ACTIVITY_TASK' <lo_bor>->av_type
                                <lo_bor>->av_objid 'CA'.
        ENDLOOP.

```

---

5	08.03.2015	21:08:46	
---	------------	----------	--

---

CDA	ZCL_CRM_BOR_CASE	Release 740	System
-----	------------------	-------------	--------

---

```

        swc_set_element: lt_args 'SkipErrors'          'X',
                        lt_args 'NewVersion'          'X',
                        lt_args 'DeleteOnlyFirst'      'X'.
        swc_set_table: lt_args 'ElementIdentification' lt_elem_id,
                        lt_args 'ElementInsertion'     lt_elem_ins,
                        lt_args 'ElementAttributes'     lt_elem_att,
                        lt_args 'ElementRelations'     lt_elem_rel.
    TRY .
        me->call_method_with_container(
            EXPORTING
                p_name      = 'AddElements'
                pt_container = lt_args
            RECEIVING
                rt_container = lt_retr ).
        swc_get_element lt_retr 'Return' ext_return.
        m_check_for_errors.
        CATCH cx_bapi_error INTO lx_error.
            RAISE EXCEPTION lx_error.
    ENDTRY.
ENDMETHOD.

```

#### Redefined Methods

```

SET_INSTANCE_BY_ID
METHOD set_instance_by_id.
    DATA: lw_return TYPE bapiret2,
           lt_return TYPE bapiret2_t,
           lvc_dummy(1) TYPE c,
           lv_guid TYPE scmg_case_guid,
           lv_ext_key TYPE scmg_ext_key.
    lv_ext_key = p_id.
    SHIFT lv_ext_key RIGHT DELETING TRAILING space.
    OVERLAY lv_ext_key WITH '000000000000'.
    TRY .
        me->av_objid = lcl_db=>get_guid( lv_ext_key ).
        CATCH cx_sy_sql_error.
            MESSAGE ID '00'

```

```

        TYPE 'E'
        NUMBER 368
        WITH 'Case not found!'(m01) space
        INTO lvc_dummy.
        lw_return-type      = sy-msgty.
        lw_return-id        = sy-msgid.
        lw_return-number    = sy-msgno.
        lw_return-message_v1 = sy-msgv1.
        lw_return-message_v2 = sy-msgv2.
        lw_return-message_v3 = sy-msgv3.
        lw_return-message_v4 = sy-msgv4.
        APPEND lw_return TO lt_return.
        RAISE EXCEPTION TYPE cx_bapi_error
        EXPORTING
            status = lt_return.
    ENDTRY.

```

---

	08.03.2015	21:08:46	
6			
	ZCL_CRM_BOR_CASE	Release 740	System
CDA			

---



---

ENDMETHOD.

#### Local Types

```

*** use this source file for any type of declarations (class
*** definitions, interfaces or type declarations) you need for
*** components in the private section
Local class definitions
*** use this source file for the definition and implementation of
*** local helper classes, interface definitions and type
*** declarations
INCLUDE <cntn03>.
*-----*
*-----*
* Class LCL_DB
* OVERVIEW: Objects of this class mediates database queries. It
aims to
*          isolate this development from external dependencies,
as
*          might be desirable in tests.
*          The instances of this object is provided by the
private
*          method GET_DB of the main class
*          (ZCL_CRM_BOR_TASK). By redefining the

```



```

which      *          method GET_DB one can provide appropriated stubs,
of          *          must redefine the desired methods of LCL_DB, instead
          *          accessing the real database tables.
          *-----*
-----*
      CLASS lcl_db DEFINITION.
        PUBLIC SECTION.
          CLASS-METHODS get_guid IMPORTING p_id          TYPE
scmg_ext_key          RETURNING VALUE(r_guid) TYPE
scmg_case_guid          RAISING    cx_sy_sql_error.
          *-----*
-----*
          * Method GET_GUID
          *-----*
-----*
          * REQUIRES: The order id must be provided.
          * EFFECTS.: If no related record is found in table
CRMD_ORDERADM_H
          *          returns exception type CX_SY_SQL_ERROR, otherwise
returns          *          the related GUID.
          *-----*
-----*
          * ->    P_ID          Case ID.
          * <-    R_GUID          Technical Case Key (Case GUID).
          *-----*
-----*
      ENDCLASS.
      CLASS lcl_db IMPLEMENTATION.
        METHOD get_guid.
          SELECT case_guid
            FROM scmg_t_case_attr
              UP TO 1 ROWS
            INTO r_guid
          WHERE ext_key    = p_id.
        ENDSELECT.
        IF sy-subrc <> 0.
          RAISE EXCEPTION TYPE cx_sy_sql_error.
        ENDIF.

```

---

08.03.2015

21:08:46

7

---

CDA ZCL\_CRM\_BOR\_CASE

Release 740

System

```

        ENDMETHOD.
    ENDCLASS.

    Macros
    *** use this source file for any macro definitions you need
    *** in the implementation part of the class
    INCLUDE <cntn02>.
    DEFINE m_add_element.
        ADD 1 TO li_counter.
        lw_elem_id-elem_no = lw_elem_ins-elem_no = lw_elem_att-elem_no
=
        li_counter.
        lw_elem_id-name = '%SPS_ID%'.
        lw_elem_id-value = &1.
        APPEND lw_elem_id TO lt_elem_id.
        lw_elem_id-name = 'BOR_OBJECT_TYPE'.
        lw_elem_id-value = &2.
        APPEND lw_elem_id TO lt_elem_id.
        lw_elem_id-name = 'BOR_OBJECT_ID'.
        lw_elem_id-value = &3.
        APPEND lw_elem_id TO lt_elem_id.
        lw_elem_ins-anchor = &4.
        APPEND lw_elem_ins TO lt_elem_ins.
    END-OF-DEFINITION.
    DEFINE m_add_superior_case.
        ADD 1 TO li_counter.
        lw_elem_id-elem_no = lw_elem_ins-elem_no = li_counter.
        lw_elem_id-name = '%SPS_ID%'.
        lw_elem_id-value = &1.
        APPEND lw_elem_id TO lt_elem_id.
        lw_elem_id-name = 'GUID'.
        lw_elem_id-value = &2.
        APPEND lw_elem_id TO lt_elem_id.
        lw_elem_ins-anchor = &3.
        APPEND lw_elem_ins TO lt_elem_ins.
    END-OF-DEFINITION.
    DEFINE m_add_attribute.
        lw_attr-name = &1.
        lw_attr-value = &2.
        APPEND lw_attr TO lt_attr.
    END-OF-DEFINITION.
    DEFINE m_add_audit_partner.
        READ TABLE lt_partners INTO lw_partner
        WITH KEY function = &1.
        IF sy-subrc = 0.
            m_add_partner 'CRM_BUSINESS_PARTNER' 'BUS1006'
                lw_partner-partner_no 'C1' &1 space.
        ENDIF.
    END-OF-DEFINITION.
    DEFINE m_add_partner.
        m_add_element &1 &2 &3 &4.
        lw_elem_att-elem_no = li_counter.
        lw_elem_att-name = 'CRM_PARTNER_FCT'.
        lw_elem_att-value = &5.
        APPEND lw_elem_att to lt_elem_att.

```

<hr/>			
08.03.2015		21:08:46	
8			
ZCL_CRM_BOR_CASE		Release 740	System
CDA			
<hr/>			
<hr/>			

```
lw_elem_att-name = 'CRM_MAIN_PARTNER'.
lw_elem_att-value = &6.
APPEND lw_elem_att to lt_elem_att.
END-OF-DEFINITION.
DEFINE m_check_for_errors.
  READ TABLE ext_return WITH KEY type = 'E'
  TRANSPORTING NO FIELDS.
  IF sy-subrc = 0.
    RAISE EXCEPTION TYPE cx_bapi_error
    EXPORTING
      status = ext_return.
  ENDIF.
END-OF-DEFINITION.
```

<hr/>			
9	08.03.2015	21:08:46	
CDA	ZCL_CRM_BOR_CASE	Release 740	System
<hr/>			
<hr/>			

	Overview
	Attributes
1	Attributes
1	Attributes
	Public attributes
1	Methods
1	Methods
	Public methods
1	CONSTRUCTOR
1	SET_TASK_REFERENCE
1	REMOVE_TASKS_FROM_RECORD
3	ADD_TASKS_TO_RECORD
5	Redefined Methods
6	Redefined Methods
6	Local Types
7	Local Types
	Local class definitions
7	Local class definitions

8                    Macros

---

10	08.03.2015	21:08:46
----	------------	----------