

CDA

ZCL_CRM_BOR_OPPORTUNITY

Release 740

System

Class: ZCL_CRM_BOR_OPPORTUNITY
Status: Active
Inh. from: ZCL_CRM_BOR_PROXY

Attributes

Description: CRM Oportunity
Instantiation: Public
Not final
Not released
Fixed pt.arithmetic
Category: General Object Type
Package: ZCRM
Original lang.: EN
Created by: P000520
Created on: 02.01.2015
Last changed by: P000597
Last changed on: 26.02.2015

Attributes
Public attributes
Attrib. Cat Description

Ref. Type
Init. value

	C_TYPE	Const	Object Type
TYPE SWO	OBJTYP		
	'BUS2000111'		
	C_BT	Const	Component Set Name for Generic Interaction
Layer	TYPE CRMT_GENIL_APPL		
	'BT'		
	C_MARKETING	Const	Component Set Name for Generic Interaction
Layer	TYPE CRMT_GENIL_APPL		
	'MARKETING'		

Protected attribute
Attrib. Cat Description
Ref. Type Init. value

Activity	<hr/>		
	AT_LTASKS	Inst	List of BOR instances
	TYPE ZT_CRM_BOR_PROXY		
	AT_PARTNERS	Inst	Business Transaction Partner for CRM
	TYPE CRMT_ACT_PARTNER_T		
	AT_ORGANIZATION	Inst	Organizational Data for CRM Activity
	TYPE CRMT_ACT_ORGANIZATION_T		
	O_BOL_CORE	Stat.	BOL Core
	TYPE REF TO CL_CRM_BOL_CORE		
	O_V_ZCRM_QUOTATION	Stat.	Variant values retriever
Transaction Items	TYPE REF TO ZCL_CRM_TVARV_RETRIEVER		
	AT_ITEMS	Inst	BO BusProcessND: Admin.Data -
	TYPE ZTT_CRM_BT_ITEMS		

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Attrib.	Cat	Description
Ref. Type		Init. value
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AT_PRODUCT	Inst	BO BusProcessND: Product Data
TYPE ZTT_CRM_BT_PRODUCT		
AW_OPPORTUNITY_DATA	Inst	BO BusProcessND: Opportunity
TYPE BAPIBUS20001_OPPORTUNITY_DIS		
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Methods		
Public methods		
CLASS_CONSTRUCTOR		
Description: CLASS_CONSTRUCTOR		
Static method		

```
method CLASS_CONSTRUCTOR.  
* Start BOL Core module  
  o_bol_core = cl_crm_bol_core=>get_instance( ).  
  o_bol_core->start_up( iv_appl_name          = c_bt  
                        iv_display_mode_support = abap_true ).  
  o_bol_core->load_component_set( c_marketing ).  
* Create variant retriever  
  o_v_zcrm_quotation =  
                                NEW zcl_crm_tvarv_retriever(  
'ZCRM_QUOTATION' ).  
endmethod.  
  
CONSTRUCTOR  
Description: CONSTRUCTOR  
Instance mthd  
  
Importing parameter  
  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_LINKED_TASK  
Description: Sets the task provided as a linked task.  
Instance mthd  
Importing parameter  
  PO_TASK TYPE REF TO ZCL_CRM_BOR_TASK  (BOR task)  
  
method SET_LINKED_TASK.  
  APPEND po_task to me->at_ltasks.  
endmethod.
```

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GET_LINKED_CASE_ID
Description: Returns the ID of the linked Case if it exists.

Instance mthd

Returning parameter

VALUE(R_EXT_KEY) TYPE SCMG_EXT_KEY (Case ID)

Exceptions

CX_BAPI_ERROR (BAPI Error Exception: Migrated Error Messages

Type "E")

```

METHOD get_linked_case_id.
  DATA: lx_error TYPE REF TO cx_bapi_error,
        lo_task  TYPE REF TO zcl_crm_bor_task.
  FIELD-SYMBOLS <lo_bor> TYPE REF TO zcl_crm_bor_proxy.
  IF me->at_ltasks IS INITIAL.
    TRY .
      me->set_attributes( ).
      CATCH cx_bapi_error INTO lx_error.
      RAISE EXCEPTION lx_error.
    ENDTRY.
  ENDIF.
  LOOP AT me->at_ltasks ASSIGNING <lo_bor>.
    lo_task ?= <lo_bor>.
    TRY .
      r_ext_key = lo_task->get_linked_case_id( ).
      CATCH cx_bapi_error.
      CONTINUE.
    ENDTRY.
    FREE lo_task.
    IF r_ext_key IS NOT INITIAL.
      RETURN.
    ENDIF.
  ENDLOOP.
ENDMETHOD.

```

GET_1ST_LINKED_TASK

Description: Returns the first linked task.

Instance mthd

Returning parameter

VALUE(RO_TASK) TYPE REF TO ZCL_CRM_BOR_TASK (BOR task)

Exceptions

CX_BAPI_ERROR (BAPI Error Exception: Migrated Error Messages

Type "E")

```

METHOD get_1st_linked_task.
  DATA: lo_bor  TYPE REF TO zcl_crm_bor_proxy,
        lx_error TYPE REF TO cx_bapi_error.
  IF me->at_ltasks IS INITIAL.
    TRY .
      me->set_attributes( ).
      CATCH cx_bapi_error INTO lx_error.
      RAISE EXCEPTION lx_error.
    ENDTRY.
  ENDIF.

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        READ TABLE me->at_ltasks INDEX 1 INTO lo_bor.
        IF sy-subrc = 0.
            ro_task ?= lo_bor.
        ENDIF.
    ENDMETHOD.

GET_SOLD_TO_PARTNER
Description: Returs the Solt-to partner.
Instance mthd

Importing parameter
    I_PROBCL TYPE BALPROBCL  OPTIONAL  (Application log: Message
problem class)
Returning parameter
    VALUE(R_VALUE) TYPE CRMT_SOLD_TO_PART  (Sold-To Party)

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

METHOD get_sold_to_partner.
    DATA: lw_partner TYPE          bapibus20001_partner_dis,
           ls_message TYPE          string,
           lw_return  TYPE          bapiret2,
           lt_return  TYPE          bapiret2_t,
           lv_msgty   TYPE          symsgty,
           lx_error   TYPE REF TO cx_bapi_error.
    IF me->at_partners IS INITIAL.
        TRY .
            me->set_attributes( ).
            CATCH cx_bapi_error INTO lx_error.
                RAISE EXCEPTION lx_error.
            ENDTRY.
        ENDIF.
    m_set_msgty.
    READ TABLE me->at_partners INTO lw_partner
        WITH KEY ref_partner_fct = 'Z0000021'.
    IF sy-subrc = 0.
        r_value = lw_partner-partner_no.
    ELSE.
        MESSAGE
            ID 'OO'
            TYPE lv_msgty
            NUMBER 368
            WITH 'Sold to partner not found!' (M03) space
            INTO ls_message.
        m_raise_exception.
    ENDIF.
ENDMETHOD.

```



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ENDIF.
ENDMETHOD.

GET_SALES_OFFICE
Description: Returns the Sales Office.
Instance mthd

Importing parameter
  I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)
Returning parameter
  VALUE(R_VALUE) TYPE CRMT_SALES_OFFICE_SHORT (Sales Office
Abbreviation)

Exceptions
  CX_BAPI_ERROR (BAPI Error Exception: Migrated Error Messages
Type "E")
METHOD get_sales_office.
  DATA: lw_organization TYPE      bapibus20001_orgman_dis,
        ls_message      TYPE      string,
        lw_return       TYPE      bapiret2,
        lt_return       TYPE      bapiret2_t,
        lv_msgty        TYPE      symsgty,
        lx_error        TYPE REF TO cx_bapi_error.
  IF me->at_organization IS INITIAL.

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TRY .
  me->set_attributes( ).
  CATCH cx_bapi_error INTO lx_error.
  RAISE EXCEPTION lx_error.
ENDTRY.
ENDIF.
m_set_msgty.
READ TABLE me->at_organization INTO lw_organization
INDEX 1.
IF sy-subrc = 0.
  r_value = lw_organization-sales_office_short.
ELSE.
  MESSAGE
    ID 'OO'
    TYPE lv_msgty
    NUMBER 368
    WITH 'Sales Office not found!' (M05) space

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        INTO ls_message.
        m_raise_exception.
    ENDIF.
ENDMETHOD.

GET_SALES_GROUP
Description: Returns the Sales Group.
Instance mthd

Importing parameter
    I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)
Returning parameter
    VALUE(R_VALUE) TYPE CRMT_SALES_GROUP_SHORT (Sales Group
Abbreviation)

Exceptions
    CX_BAPI_ERROR (BAPI Error Exception: Migrated Error Messages
Type "E")
METHOD get_sales_group.
    DATA: lw_organization TYPE          bapibus20001_orgman_dis,
          ls_message      TYPE          string,
          lw_return       TYPE          bapiret2,
          lt_return       TYPE          bapiret2_t,
          lv_msgty        TYPE          symsgty,
          lx_error        TYPE REF TO cx_bapi_error.
    IF me->at_organization IS INITIAL.
        TRY .
            me->set_attributes( ).
            CATCH cx_bapi_error INTO lx_error.
                RAISE EXCEPTION lx_error.
        ENDTRY.
    ENDIF.
    m_set_msgty.
    READ TABLE me->at_organization INTO lw_organization
    INDEX 1.
    IF sy-subrc = 0.
        r_value = lw_organization-sales_group_short.
    ELSE.
        MESSAGE

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    ID 'OO'
    TYPE lv_msgty

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        NUMBER 368
        WITH 'Sales Group not found!'(M06) space
        INTO ls_message.
        m_raise_exception.
    ENDIF.
ENDMETHOD.

GET_DISTRIBUTION_CHANNEL
Description: Returns the Distribution Channel.
Instance mthd

Importing parameter
    I_PROBCL TYPE BALPROBCL  OPTIONAL  (Application log: Message
problem class)
Returning parameter
    VALUE(R_VALUE) TYPE CRMT_DISTRIBUTION_CHANNEL  (Distribution
Channel)

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

METHOD get_distribution_channel.
    DATA: lw_organization TYPE      bapibus20001_orgman_dis,
           ls_message      TYPE      string,
           lw_return       TYPE      bapiret2,
           lt_return       TYPE      bapiret2_t,
           lv_msgty        TYPE      symsgty,
           lx_error        TYPE REF TO cx_bapi_error.
    IF me->at_organization IS INITIAL.
        TRY .
            me->set_attributes( ).
            CATCH cx_bapi_error INTO lx_error.
                RAISE EXCEPTION lx_error.
            ENDTRY.
        ENDIF.
    m_set_msgty.
    READ TABLE me->at_organization INTO lw_organization
    INDEX 1.
    IF sy-subrc = 0.
        r_value = lw_organization-dis_channel.
    ELSE.
        MESSAGE
            ID 'OO'
            TYPE lv_msgty
            NUMBER 368
            WITH 'Distribution Channel not found!'(M07) space
            INTO ls_message.
        m_raise_exception.
    ENDIF.
ENDMETHOD.

GET_DIVISION
Description: Returns the Division.
Instance mthd

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Importing parameter
I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)
Returning parameter
VALUE(R_VALUE) TYPE CRMT_DISTRIBUTION_CHANNEL (Distribution
Channel)

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

```

METHOD GET_DIVISION.
    DATA: lw_organization TYPE      bapibus20001_orgman_dis,
          ls_message      TYPE      string,
          lw_return       TYPE      bapiret2,
          lt_return       TYPE      bapiret2_t,
          lv_msgty        TYPE      symsgty,
          lx_error        TYPE REF TO cx_bapi_error.
    IF me->at_organization IS INITIAL.
        TRY .
            me->set_attributes( ).
            CATCH cx_bapi_error INTO lx_error.
                RAISE EXCEPTION lx_error.
        ENDTRY.
    ENDIF.
    m_set_msgty.
    READ TABLE me->at_organization INTO lw_organization
    INDEX 1.
    IF sy-subrc = 0.
        r_value = lw_organization-division.
    ELSE.
        MESSAGE
            ID 'OO'
            TYPE lv_msgty
            NUMBER 368
            WITH 'Division not found!' (M18) space
            INTO ls_message.
        m_raise_exception.
    ENDIF.
ENDMETHOD.

```

GET_PZE
Description: Returns the PZE (Sales term information).
Instance mthd

Importing parameter

```

        I_PROBCL TYPE BALPROBCL  OPTIONAL  (Application log: Message
problem class)
        Returning parameter
        VALUE(RW_VALUES) TYPE ZSCRM_PZE  (Sales Term)

Exceptions
        CX_BAPI_ERROR  (BAPI Error Exception: Migrated Error Messages
Type "E")
        METHOD get_pze.
            DATA: lv_oguid      TYPE          crmt_genil_object_guid,
                  lo_btadminh   TYPE REF TO cl_crm_bol_entity,
                  lo_btopporth  TYPE REF TO cl_crm_bol_entity,
                  ls_value      TYPE          string,

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            ls_text      TYPE          string,
            ls_message   TYPE          string,
            lw_return     TYPE          bapiret2,
            lt_return     TYPE          bapiret2_t,
            lv_msgty      TYPE          symsgty.
        m_set_msgty.
        lv_oguid = me->av_objid.
        TRY .
            lo_btadminh =
                o_bol_core->get_root_entity( iv_object_name =
'BTAdminH'
                                           iv_object_guid = lv_oguid
            ).
            IF lo_btadminh IS BOUND.
                lo_btopporth =
                    lo_btadminh->get_related_entity(
'BTHeaderOpportunityExt').
                ls_value =
                    lo_btopporth->get_property_as_string(
'ZZFLD000000J' ).
                ls_text = lo_btopporth->get_property_text(
'ZZFLD000000J' ).
                IF ls_value IS NOT INITIAL.
                    rw_values-pze = ls_value.
                    rw_values-description = ls_text.
                ENDIF.
            ENDIF.
        CATCH cx_root.

```

```

        MESSAGE
            ID 'OO'
            TYPE lv_msgty
            NUMBER 368
            WITH 'Error when retrieving PZE!' (M08) space
            INTO ls_message.
    ENDTRY.
ENDMETHOD.

GET_PAYMENT_TERM
Description: Returns the payment term.
Instance mthd

Importing parameter
    I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)
Returning parameter
    VALUE(RW_VALUES) TYPE ZSCRM_PYM_TERM (Payment term data)

Exceptions
    CX_BAPI_ERROR (BAPI Error Exception: Migrated Error Messages
Type "E")
METHOD get_payment_term.
    DATA: lv_oguid      TYPE          crmt_genil_object_guid,
           lo_btadminh   TYPE REF TO  cl_crm_bol_entity,
           lo_btopporth  TYPE REF TO  cl_crm_bol_entity,
           ls_value      TYPE          string,
           ls_text       TYPE          string,
           ls_message    TYPE          string,
           lw_return     TYPE          bapiret2,
           lt_return     TYPE          bapiret2_t,
           lv_msgty      TYPE          symsgty.
    m_set_msgty.

```

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```

lv_oguid = me->av_objid.
TRY .
    lo_btadminh =
        o_bol_core->get_root_entity( iv_object_name =
'BTAdminH'
                                     iv_object_guid = lv_oguid
        ).
    IF lo_btadminh IS BOUND.
        lo_btopporth =

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        lo_btadminh->get_related_entity(
'BTHeaderOpportunityExt').
        ls_value =
            lo_btopporth->get_property_as_string(
'ZZFLD000019' ).
        ls_text = lo_btopporth->get_property_text(
'ZZFLD000019' ).
        IF ls_value IS NOT INITIAL.
            rw_values-paym_term = ls_value.
            IF ls_text IS NOT INITIAL.
                rw_values-description = ls_text.
            ELSE.
                DATA(lo_db) = NEW lcl_db( ).
                TRY .
                    rw_values-description =
                        lo_db->get_paym_term_descr( rw_values-
paym_term ).
                CATCH cx_sy_sql_error.
                    MESSAGE
                        ID 'OO'
                        TYPE lv_msgty
                        NUMBER 368
                        WITH 'Error while retrieving Payment Term
description!' (M16)
                        space
                        INTO ls_message.
                    m_raise_exception.
                ENDTRY.
            ENDIF.
        ENDIF.
    ENDIF.
CATCH cx_root.
    MESSAGE
        ID 'OO'
        TYPE lv_msgty
        NUMBER 368
        WITH 'Error while retrieving Payment Term!' (M09) space
        INTO ls_message.
    m_raise_exception.
ENDTRY.
ENDMETHOD.

```

GET_CONTACT_PERSON
Description: Returns the contact person.
Instance mthd

Importing parameter
I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)
Returning parameter
VALUE(R_VALUE) TYPE CRMT_PARTNER_NO (Partner Number)

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

```

METHOD get_contact_person.
  DATA: lw_partner TYPE      bapibus20001_partner_dis,
        ls_message TYPE      string,
        lw_return  TYPE      bapiret2,
        lt_return  TYPE      bapiret2_t,
        lv_msgty   TYPE      symsgty,
        lx_error   TYPE REF TO cx_bapi_error.
  IF me->at_partners IS INITIAL.
    TRY .
      me->set_attributes( ).
      CATCH cx_bapi_error INTO lx_error.
      RAISE EXCEPTION lx_error.
    ENDTRY.
  ENDIF.
  m_set_msgty.
  READ TABLE me->at_partners INTO lw_partner
    WITH KEY ref_partner_fct = '00000015'.
  IF sy-subrc = 0.
    r_value = lw_partner-partner_no.
  ELSE.
    MESSAGE
      ID 'OO'
      TYPE lv_msgty
      NUMBER 368
      WITH 'Contact person not found!' (M10) space
      INTO ls_message.
    m_raise_exception.
  ENDIF.
ENDMETHOD.

```

GET_INVOICE_RECEIVER
 Description: Returns the invoice receiver.
 Instance mthd

Importing parameter
 I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
 problem class)
 Returning parameter
 VALUE(R_VALUE) TYPE CRMT_PARTNER_NO (Invoice receiver)

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

```

METHOD get_invoice_receiver.
  DATA: lw_partner TYPE      bapibus20001_partner_dis,
        ls_message TYPE      string,

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        lw_return TYPE      bapiret2,
        lt_return TYPE      bapiret2_t,
        lv_msgty  TYPE      symsgty,
        lx_error  TYPE REF TO cx_bapi_error.
IF me->at_partners IS INITIAL.
    TRY .
        me->set_attributes( ).

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        CATCH cx_bapi_error INTO lx_error.
        RAISE EXCEPTION lx_error.
    ENDTRY.
ENDIF.
m_set_msgty.
READ TABLE me->at_partners INTO lw_partner
    WITH KEY ref_partner_fct = 'RE'.
IF sy-subrc = 0.
    r_value = lw_partner-partner_no.
ELSE.
    MESSAGE
        ID 'OO'
        TYPE lv_msgty
        NUMBER 368
        WITH 'Invoice receiver not found!'(M11) space
        INTO ls_message.
    m_raise_exception.
ENDIF.
ENDMETHOD.

```

GET_PAYER
Description: Returns the payer.
Instance mthd

Importing parameter
I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)

Returning parameter
VALUE(R_VALUE) TYPE CRMT_PARTNER_NO (Payer)

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

```
DATA: lw_partner TYPE      bapibus20001_partner_dis,
      ls_message TYPE      string,
      lw_return  TYPE      bapiret2,
      lt_return  TYPE      bapiret2_t,
      lv_msgty   TYPE      symsgty,
      lx_error   TYPE REF TO cx_bapi_error.
IF me->at_partners IS INITIAL.
  TRY .
    me->set_attributes( ).
    CATCH cx_bapi_error INTO lx_error.
    RAISE EXCEPTION lx_error.
  ENDTRY.
ENDIF.
m_set_msgty.
READ TABLE me->at_partners INTO lw_partner
  WITH KEY ref_partner_fct = '00000004'.
IF sy-subrc = 0.
  r_value = lw_partner-partner_no.
ELSE.
  MESSAGE
    ID 'OO'
    TYPE lv_msgty
```

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NUMBER 368
  WITH 'Payer not found!'(M12) space
  INTO ls_message.
  m_raise_exception.
ENDIF.
ENDMETHOD.

GET_PAYMENT_SOURCE
Description: Returns the payment source.
Instance mthd

Importing parameter
  I_PROBCL TYPE BALPROBCL  OPTIONAL  (Application log: Message
problem class)
Returning parameter
  VALUE(RW_VALUES) TYPE ZSCRM_PYM_SRC  (Payment Source)

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



```

METHOD get_payment_source.
  DATA: lv_oguid      TYPE      crmt_genil_object_guid,
        lo_btadminh   TYPE REF TO cl_crm_bol_entity,
        lo_btopporth  TYPE REF TO cl_crm_bol_entity,
        ls_value      TYPE      string,
        ls_text       TYPE      string,
        ls_message    TYPE      string,
        lw_return     TYPE      bapiret2,
        lt_return     TYPE      bapiret2_t,
        lv_msgty      TYPE      symsgty.
  m_set_msgty.
  lv_oguid = me->av_objid.
  TRY .
    lo_btadminh =
      o_bol_core->get_root_entity( iv_object_name =
'BTAdminH'
                                iv_object_guid = lv_oguid
      ).
    IF lo_btadminh IS BOUND.
      lo_btopporth =
        lo_btadminh->get_related_entity(
'BTHeaderOpportunityExt').
      ls_value =
        lo_btopporth->get_property_as_string(
'ZZFLD00000K' ).
      ls_text = lo_btopporth->get_property_text(
'ZZFLD00000K' ).
      IF ls_value IS NOT INITIAL.
        rw_values-paym_src   = ls_value.
        rw_values-description = ls_text.
      ENDIF.
    ENDIF.
  CATCH cx_root.
    MESSAGE
      ID 'OO'
      TYPE lv_msgty
      NUMBER 368
      WITH 'Error when retrieving Payment Term!' (M09) space
      INTO ls_message.
    m_raise_exception.
  ENDTRY.

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ENDMETHOD.

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GET_CREDIT_ANALYSIS
Description: Returns the credit analysis table.
Instance mthd

Importing parameter
  I_PROBCL TYPE BALPROBCL  OPTIONAL  (Application log: Message
problem class)
Returning parameter
  VALUE(RT_VALUES) TYPE ZTT_CRM_CREDIT_ANALYSIS  (CRM credit
analysis)

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

METHOD get_credit_analysis.
  DATA: lo_dyn_query TYPE REF TO    cl_crm_bol_dquery_service,
        lo_result     TYPE REF TO    if_bol_entity_col,
        lo_iterator    TYPE REF TO    if_bol_bo_col_iterator,
        lo_partner     TYPE REF TO    cl_crm_bol_entity,
        lo_mkt_atts    TYPE REF TO    if_bol_bo_col,
        lo_mkt_att     TYPE REF TO    cl_crm_bol_entity,
        lx_error_bp    TYPE REF TO    cx_bapi_error,
        lx_root        TYPE REF TO    cx_root,
        ls_partner     TYPE            string,
        ls_att_set     TYPE            string,
        ls_value       TYPE            string,
        ls_descr       TYPE            string,
        lr_masets      TYPE RANGE OF  crmt_prof_template,
        lw_value       TYPE            zst_crm_credit_analysis,
        ls_message     TYPE            string,
        lw_return      TYPE            bapiret2,
        lt_return      TYPE            bapiret2_t,
        lv_msgty       TYPE            symsgty.
  m_set_msgty.
  TRY .
    * Get selection criteria: Marketing attribute sets in variant
    * ZCRM_QUOTATION_MKTASET
      o_v_zcrm_quotation->get_multiple(
        EXPORTING
          im_vname = 'MKTASET'
        IMPORTING
          ext_values = lr_masets ).

    * Get advanced query
      lo_dyn_query =
        cl_crm_bol_dquery_service=>get_instance(
'BuilHeaderAdvancedSearch' ).
      TRY .
        ls_partner = me->get_sold_to_partner( ).
        CATCH cx_bapi_error INTO lx_error_bp.
        RAISE EXCEPTION lx_error_bp.
      ENDTRY.
      lo_dyn_query->add_selection_param( iv_attr_name =
'PARTNER'

                                iv_sign      = 'I'
                                iv_option    = 'EQ'
                                iv_low      = ls_partner
                                iv_high     = '' ).

```

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```

* Execute the query and receive result
    lo_result = lo_dyn_query->get_query_result( ).
    lo_partner = lo_result->get_current( ).
    lo_mkt_atts = lo_partner->get_related_entities(
iv_relation_name =
    'BuillMktAttributeRel' ).
    lo_iterator = lo_mkt_atts->get_iterator( ).
    lo_mkt_att ?= lo_iterator->get_first( ).
    WHILE lo_mkt_att IS BOUND.
* Access attributes of business objects selected
    ls_att_set =
        lo_mkt_att->get_property_as_string(
'ATTRIBUTE_SET' ).
    IF ls_att_set IN lr_masets.
        ls_value = lo_mkt_att->get_property_as_string(
'VALUE' ).
        ls_descr = lo_mkt_att->get_property_as_string(
'VALUE_DESCR' ).
        lw_value-value = ls_value.
        lw_value-value_descr = ls_descr.
        APPEND lw_value TO rt_values .
    ENDIF.
    lo_mkt_att ?= lo_iterator->get_next( ).
    ENDWHILE.
CATCH cx_root.
    MESSAGE
        ID 'OO'
        TYPE lv_msgty
        NUMBER 368
        WITH 'Error when retrieving Credit Analysis!'(M13)
space
        INTO ls_message.
        m_raise_exception.
    ENDTRY.
ENDMETHOD.

```

```

GET_ITEMS_DATA
Description: Returns items data.
Instance mthd

```

```

Importing parameter
    I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)

```

```

Returning parameter
  VALUE(RT_ITEMS) TYPE ZTT_CRM_OPPORTUNITY_ITM_DATA (Table of
items returned by fm
  ZGET_OPPORTUNITY_DATA)

Exceptions
  CX_BAPI_ERROR (BAPI Error Exception: Migrated Error Messages
Type "E")
  METHOD get_items_data.
    DATA: lx_error      TYPE REF TO cx_bapi_error,
           lw_item_data TYPE      zst_crm_opportunity_itm_data,
           lw_product    TYPE      bapibus20001_product_dis,
           lv_guid_16    TYPE      crmt_object_guid,
           ls_message    TYPE      string,
           lw_return     TYPE      bapiret2,
           lt_return     TYPE      bapiret2_t,
           lv_msgty      TYPE      symsgty.
    FIELD-SYMBOLS <lw_item> TYPE bapibus20001_item_dis.
    IF me->at_items IS INITIAL.

```

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```

TRY .
  me->set_attributes( ).
  CATCH cx_bapi_error INTO lx_error.
    RAISE EXCEPTION lx_error.
  ENDTRY.
ENDIF.
m_set_msgty.
LOOP AT me->at_items ASSIGNING <lw_item>.
  lw_item_data-ordered_prod = <lw_item>-ordered_prod.
  lw_item_data-description_uc = <lw_item>-description_uc.
  lw_item_data-number_int = <lw_item>-number_int.
  o_v_zcrm_quotation->get_single(
    EXPORTING
      im_vname = 'PLANT'
    IMPORTING
      ex_value = lw_item_data-plant ).
  lw_item_data-currency = me->aw_opportunity_data-
currency.
  READ TABLE me->at_product WITH KEY guid = <lw_item>-guid
    INTO lw_product.
  IF sy-subrc = 0.
    lw_item_data-order_qty = lw_product-process_qty_num.

```

```

        lw_item_data-process_qty_unit = lw_product-
process_qty_unit.
    ENDIF.
    lv_guid_16 = cl_crm_isu_guid=>convert_32_to_16( <lw_item>-
guid ).
    TRY .
        lw_item_data-net_value_man = me->get_item_price(
lv_guid_16 ).
    CATCH cx_bapi_error .
        CLEAR lw_item_data-net_value_man.
    ENDTRY.
    APPEND lw_item_data TO rt_items.
ENDLOOP.
ENDMETHOD.

```

GET_SHIP_TO_PARTY

Description: Returns the ship-to party.

Instance mthd

Importing parameter

I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)

Returning parameter

VALUE(R_VALUE) TYPE CRMT_PARTNER_NO (Ship-to party)

Exceptions

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

METHOD get_ship_to_party.

```

    DATA: lw_partner TYPE          bapibus20001_partner_dis,
          ls_message TYPE          string,
          lw_return  TYPE          bapiret2,
          lt_return  TYPE          bapiret2_t,
          lv_msgty   TYPE          symsgty,
          lx_error   TYPE REF TO cx_bapi_error.

```

IF me->at_partners IS INITIAL.

```

    TRY .
        me->set_attributes( ).

```

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```

    CATCH cx_bapi_error INTO lx_error.
        RAISE EXCEPTION lx_error.
    ENDTRY.
ENDIF.

```

```

m_set_msgty.
READ TABLE me->at_partners INTO lw_partner
  WITH KEY ref_partner_fct = 'WE'.
IF sy-subrc = 0.
  r_value = lw_partner-partner_no.
ELSE.
  MESSAGE
    ID 'OO'
    TYPE lv_msgty
    NUMBER 368
    WITH 'Ship-to party not found!'(M15) space
    INTO ls_message.
  m_raise_exception.
ENDIF.
ENDMETHOD.

GET_PHASE
Description: Returns the current phase.
Instance mthd

Importing parameter
  I_PROBCL TYPE BALPROBCL OPTIONAL (Application log: Message
problem class)
Returning parameter
  VALUE(RW_VALUES) TYPE ZSCRM_PHASE (CRM Phase)

Exceptions
  CX_BAPI_ERROR (BAPI Error Exception: Migrated Error Messages
Type "E")
METHOD get_phase.
  DATA: ls_message TYPE string,
        lw_return TYPE bapiret2,
        lt_return TYPE bapiret2_t,
        lv_msgty TYPE symsgty,
        lx_error TYPE REF TO cx_bapi_error.
  IF me->aw_opportunity_data IS INITIAL.
    TRY .
      me->set_attributes( ).
      CATCH cx_bapi_error INTO lx_error.
        RAISE EXCEPTION lx_error.
    ENDTRY.
  ENDIF.
  m_set_msgty.
  rw_values-phase = aw_opportunity_data-curr_phase.
  DATA(lo_db) = NEW lcl_db( ).
  TRY .
    rw_values-description_20 =
      lo_db->get_phase_descr( rw_values-
phase ).
    CATCH cx_sy_sql_error.
      MESSAGE
        ID 'OO'
        TYPE lv_msgty

```

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```

        NUMBER 368
        WITH 'Error while retrieving Phase description!' (M17)
        space
        INTO ls_message.
        m_raise_exception.
    ENDTRY.
ENDMETHOD.

```

Protected methods

```

GET_ITEM_PRICE
Description: Returns the item price.
Instance mthd
Importing parameter
    I_GUID TYPE CRMT_OBJECT_GUID  (GUID of a CRM Order Object)

```

```

Returning parameter
    VALUE(R_VALUE) TYPE CRMT_NET_VALUE_MAN  (Total Expected Net
Value Products in Document Currency)
Exceptions
    CX_BAPI_ERROR  (BAPI Error Exception: Migrated Error Messages
Type "E")

```

```

METHOD get_item_price.
    DATA: lv_oguid      TYPE      crmt_genil_object_guid,
           lo_BTAdminH   TYPE REF TO cl_crm_bol_entity,
           lo_BTItems    TYPE REF TO cl_crm_bol_entity,
           lo_AllItems   TYPE REF TO if_bol_bo_col,
           lo_iterator   TYPE REF TO if_bol_bo_col_iterator,
           lo_BTAdminI   TYPE REF TO cl_crm_bol_entity,
           lo_btpricingI TYPE REF TO cl_crm_bol_entity,
           lr_iguid      TYPE REF TO data,
           lr_value      TYPE REF TO data,
           ls_message    TYPE      string,
           lw_return     TYPE      bapiret2,
           lt_return     TYPE      bapiret2_t.
    FIELD-SYMBOLS: <lv_iguid> TYPE CRMT_OBJECT_GUID,
                  <lv_value> TYPE crmt_net_value_man.
    lv_oguid = me->av_objid.
    TRY .
        lo_BTAdminH =
            o_bol_core->get_root_entity( iv_object_name =
'BTAdminH'
                                     iv_object_guid = lv_oguid
            ).
        IF lo_BTAdminH IS BOUND.
            lo_BTItems =
                lo_BTAdminH->get_related_entity(
                    iv_relation_name = 'BTHederItemsExt' ).

```

```

        lo_AllItems =
        lo_BTItems->get_related_entities( iv_relation_name =
'BTOrderItemAll' ).
        IF lo_AllItems is NOT BOUND.
            RETURN.
        ENDIF.
        lo_iterator = lo_AllItems->get_iterator( ).
        lo_BTAdminI := lo_iterator->get_first( ).
        WHILE lo_BTAdminI IS BOUND.
            lr_iguid = lo_BTAdminI->get_property( 'GUID' ).

```

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```

        ASSIGN lr_iguid->* to <lv_iguid>.
        IF <lv_iguid> = i_guid.
            lo_BTPricingI =
            lo_BTAdminI->get_related_entity(
'BTItemPricingExt' ).
            IF lo_BTPricingI is BOUND.
                lr_value =
                lo_BTPricingI->get_property(
'NET_VALUE_MAN' ).
                ASSIGN lr_value->* TO <lv_value>.
                r_value = <lv_value>.
                exit.
            ENDIF.
        ENDIF.
        lo_BTAdminI := lo_iterator->get_next( ).
    ENDWHILE.
ENDIF.
CATCH cx_root.
    MESSAGE
        ID 'OO'
        TYPE 'E'
        NUMBER 368
        WITH 'Error when retrieving Item Price!' (M14) space
        INTO ls_message.
    m_raise_exception.
ENDTRY.
ENDMETHOD.

```

Private methods

GET_DB

Description: Returns a database mediator instance.


```
Instance mthd
Returning parameter
    VALUE(RO_DB) TYPE REF TO OBJECT    (Database mediator)

METHOD get_db.
    DATA lo_db TYPE REF TO lcl_db.
    lo_db = NEW lcl_db( ).
    IF lo_db IS BOUND.
        ro_db = lo_db.
    ENDIF.
    FREE lo_db.
ENDMETHOD.

GET_API
Description: Returns a API calls mediator.
Instance mthd

Returning parameter
    VALUE(RO_API) TYPE REF TO OBJECT    (API calls mediator)
METHOD get_api.
    DATA lo_api TYPE REF TO lcl_api.
    lo_api = NEW lcl_api( ).
    IF lo_api IS BOUND.
```

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```
        ro_api = lo_api.
    ENDIF.
    FREE lo_api.
ENDMETHOD.

Redefined Methods

SET_ATTRIBUTES
METHOD set_attributes.
    DATA: lx_error TYPE REF TO cx_bapi_error,
           lo_api   TYPE REF TO lcl_api,
           lv_oguid TYPE          crmt_object_guid,
           lw_guid  TYPE          bapibus20001_guid_dis,
           lt_guid  TYPE          bapibus20001_guid_dis_t,
           lt_dflow TYPE          crmt_doc_flow_db_wrkt,
           lo_task  TYPE REF TO   zcl_crm_bor_task,
           lv_tguid TYPE          swo_typeid,
           lt_args  TYPE          swconttab,
```

```

        lt_retr  TYPE          swconttab,
        lt_return TYPE          bapiret2_t,
        lw_return TYPE          bapiret2.
FIELD-SYMBOLS <lw_dflow> TYPE crmt_doc_flow_db_wrk.
TRY.
    CALL METHOD super->set_attributes.
    CATCH cx_bapi_error INTO lx_error.
    RAISE EXCEPTION lx_error.
ENDTRY.
lv_oguid = me->av_objid.
lo_api ?= get_api( ).
TRY .
    lt_dflow = lo_api->get_doc_flow( lv_oguid ).
    CATCH cx_bapi_error INTO lx_error.
    RAISE EXCEPTION lx_error.
ENDTRY.
LOOP AT lt_dflow ASSIGNING <lw_dflow>
    WHERE objtype_b = 'BUS2000125'.
    lv_tguid = <lw_dflow>-objkey_b.
    lo_task = NEW zcl_crm_bor_task( lv_tguid ).
    APPEND lo_task TO me->at_ltasks.
    FREE lo_task.
ENDLOOP.
" Details
lw_guid-guid      = me->av_objid.
lw_guid-object_type = me->av_type.
APPEND lw_guid TO lt_guid.
swc_set_table  lt_args 'Guid' lt_guid.
TRY .
    me->call_method_with_container(
        EXPORTING
            p_name      = 'GetDetailMultiple'
            pt_container = lt_args
        RECEIVING
            rt_container = lt_retr ).

```

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```

        swc_get_element lt_retr 'Return' lt_return.
        m_check_for_errors.
        CATCH cx_bapi_error INTO lx_error.
        RAISE EXCEPTION lx_error.
ENDTRY.
swc_get_element: lt_retr 'Partner'      me->at_partners,

```

```

                                lt_retr 'Organisation' me->at_organization,
                                lt_retr 'Item'          me->at_items,
                                lt_retr 'Product'        me->at_product,
                                lt_retr 'Opportunity'     me-
>aw_opportunity_data.
    ENDMETHOD.

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      crmt_object_guid,
           lv_id        TYPE      crmt_object_id_db,
           lo_db        TYPE REF TO lcl_db.
    lo_db ?= get_db( ).
    lv_id = p_id.
    SHIFT lv_id RIGHT DELETING TRAILING space.
    OVERLAY lv_id WITH '0000000000'.
    TRY .
        lo_db->get_guid( EXPORTING p_type = me->av_type
                        p_id      = lv_id
                        RECEIVING r_guid = lv_guid ).
    CATCH cx_sy_sql_error.
        FREE lo_db.
        MESSAGE ID '00'
                TYPE 'E'
                NUMBER 398
                WITH 'Opportunity'(m01) p_id 'not found!'(m02) 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.
    me->av_objid = lv_guid.
    FREE lo_db.
endmethod.

```

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```

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_OPPORTUNITY).
*           By redefining the method GET_DB one can provide
*           appropriated stubs, which must redefine the desired
*           methods of LCL_DB, instead of accessing the actual
*           database tables.
*-----*
----*
CLASS lcl_db DEFINITION.
  PUBLIC SECTION.
    METHODS: get_guid IMPORTING p_type          TYPE
crmt_subobject_category_db
                                   p_id          TYPE
crmt_object_id_db
                                   RETURNING VALUE(r_guid) TYPE
crmt_object_guid
                                   RAISING   cx_sy_sql_error,
*-----*
----*
* Method GET_GUID
*-----*
----*
* 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_TYPE      Business Trans. Cat.
* ->   P_ID        Transaction ID.
* <-   R_GUID      UUID in character form.

```

```

*-----*
----*
      get_paym_term_descr IMPORTING p_pterm          TYPE
crmt_pmnttrms
                                RETURNING VALUE(r_descr) TYPE
crmt_pmnttrms_descr
                                RAISING    cx_sy_sql_error,
*-----*
----*
* Method GET_PAYM_TERM_DESCR
*-----*
----*
* EFFECTS.: If no related record is found in table
CRMC_PMNTTRMS_T
*           returns exception type CX_SY_SQL_ERROR, otherwise
returns
*           the related description.
*-----*
----*
* ->    P_PTERM      Terms of Payment.
* <-    R_DESCR      Explanation of Payment Terms.
*-----*
----*
      get_phase_descr IMPORTING p_phase          TYPE crmt_phase
                                RETURNING VALUE(r_descr) TYPE
crmt_description_20

```

```

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```

```

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```

                                RAISING    cx_sy_sql_error.
*-----*
----*
* Method GET_PHASE_DESCR
*-----*
----*
* EFFECTS.: If no related record is found in table CRMC_PHASE_T
*           returns exception type CX_SY_SQL_ERROR, otherwise
returns
*           the related description.
*-----*
----*
* ->    P_PHASE      Sales Stage.
* <-    R_DESCR      Description (20 Characters).
*-----*
----*

```

```

ENDCLASS.
*-----*
----*
* Class LCL_API
* OVERVIEW: Objects of this class mediates API calls. 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_API of the main class
(ZCL_CRM_BOR_OPPORTUNITY).
*           By redefining the method GET_API one can provide
*           appropriated stubs, which must redefine the desired
*           methods of LCL_API, instead of accessing the real
APIs.
*-----*
----*
CLASS lcl_api DEFINITION.
  PUBLIC SECTION.
    METHODS get_doc_flow IMPORTING p_guid          TYPE
crmt_object_guid
                                RETURNING VALUE(rt_dflow) TYPE
crmt_doc_flow_db_wrkt
                                RAISING   cx_bapi_error.
*-----*
----*
* Method GET_DOC_FLOW
*-----*
----*
* REQUIRES: The GUID of the reference document must be provided.
* EFFECTS.: If the API CRM_DOC_FLOW_READ_DB returns an error this
method
*           returns exception type CX_BAPI_ERROR, otherwise
returns
*           a table holding document flow data.
*-----*
----*
* ->   P_GUID      GUID of a CRM Order Object.
* <-   RT_DFLOW    Document flow.
*-----*
----*
ENDCLASS.
CLASS lcl_db IMPLEMENTATION.
  METHOD get_guid.
    SELECT guid
      FROM crmd_orderadm_h
      UP TO 1 ROWS
      INTO r_guid
      WHERE object_id   = p_id
      AND object_type = p_type.
    ENDSELECT.
    IF sy-subrc <> 0.
      RAISE EXCEPTION TYPE cx_sy_sql_error.
    ENDIF.
  ENDMETHOD.
  METHOD get_paym_term_descr.

```

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```

SELECT description
  FROM crmc_pmnttrms_t
   UP TO 1 ROWS
 INTO r_descr
 WHERE langu = sy-langu
   AND payment_terms = p_pterm.
ENDSELECT.
IF sy-subrc <> 0.
  RAISE EXCEPTION TYPE cx_sy_sql_error.
ENDIF.
ENDMETHOD.
METHOD get_phase_descr.
  SELECT description_20
    FROM crmc_phase_t
     UP TO 1 ROWS
 INTO r_descr
 WHERE langu = sy-langu
   AND phase = p_phase.
ENDSELECT.
IF sy-subrc <> 0.
  RAISE EXCEPTION TYPE cx_sy_sql_error.
ENDIF.
ENDMETHOD.
ENDCLASS.
CLASS lcl_api IMPLEMENTATION.
  METHOD get_doc_flow.
    DATA: lw_return TYPE bapiret2,
           lt_return TYPE bapiret2_t,
           ls_message TYPE string.
    CALL FUNCTION 'CRM_DOC_FLOW_READ_DB'
      EXPORTING
        iv_header_guid = p_guid
      IMPORTING
        et_doc_links   = rt_dflow
      EXCEPTIONS
        error_occurred = 1
        OTHERS         = 2.
    IF sy-subrc <> 0.
      m_raise_exception.
    ENDIF.
  ENDMETHOD.
ENDCLASS.
Macros

```

```

*** use this source file for any macro definitions you need
*** in the implementation part of the class
INCLUDE <cntn02>.
DEFINE m_raise_exception.
  message id sy-msgid
    type sy-msgty
    number sy-msgno
    with sy-msgv1 sy-msgv2
        sy-msgv3 sy-msgv4
    into ls_message.

```

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```

  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.
  lw_return-message    = ls_message.
  append lw_return to lt_return.
  raise exception type cx_bapi_error
    exporting
      status = lt_return.
END-OF-DEFINITION.
DEFINE m_check_for_errors.
  READ TABLE lt_return WITH KEY type = 'E'
    TRANSPORTING NO FIELDS.
  IF sy-subrc = 0.
    RAISE EXCEPTION TYPE cx_bapi_error
      EXPORTING
        status = lt_return.
  ENDIF.
END-OF-DEFINITION.
DEFINE m_set_msgty.
  IF i_probcl IS SUPPLIED.
    CASE i_probcl.
      WHEN '1' OR '2'.
        lv_msgty = 'E'.
      WHEN '3'.
        lv_msgty = 'W'.
      WHEN OTHERS.
        lv_msgty = 'I'.
    ENDCASE.
  ENDIF.

```



```
        ENDCASE.  
    ELSE.  
        lv_msgty = 'I'.  
    ENDIF.  
END-OF-DEFINITION.
```

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	Overview
	Attributes
1	Attributes
1	Attributes
	Public attributes
1	Protected attribute
1	
	Methods
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