

How-To Guide: Dropdown Boxes



Target Audience

- System administrators
- Technology consultants

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THE BEST-RUN BUSINESSES RUN SAP



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1	Recommendation
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1 Introduction

A common task for a CRM developer is providing a dropdown box for a business object attribute displayed in a view on the CRM WebClient UI.

1.1 Solution Summary

To provide a dropdown box, you implement a value help getter (V getter) for your attribute in the context node class used for display. For example, GET_V_PARTNER_TYPE for PARTNER TYPE.

The V getter returns an object by implementing the interface IF_BSP_WD_VALUEHELP_PLDESCR. It provides the dropdown box content by using one of the following methods:

GET SELECTION TABLE

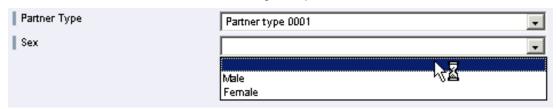
This method returns the content as table data.

GET_BINDING_STRING

This method points to a context node attribute that provides the content.

This document includes examples for both approaches.

For this How-To Guide, the result of creating a dropdown box looks like this:





For the advanced search, the procedure is different. For more information, see *Provide a Dropdown Box for an Advanced Search* [page 17].



2 Detailed Procedure for Providing a Dropdown Box

2.1 Create P Getter for Business Object Attribute

For the UI to display a dropdown box, the field type of the attribute must be set as a dropdown box.

The attribute's context node class must have a property getter (P getter) method implemented. To create a P getter for the attribute, do the following:

- 1. Open the component workbench (transaction BSP_WD_CMPWB) and navigate to the component view containing the appropriate attribute.
- 2. Select the *Implementation Class* below the context node used for display to open the Class Builder.
- 3. Use the method _GET_P_XYZ as a template to create a P getter for your attributes by right clicking on it and choosing *Copy* from the context menu.
- 4. Rename the copied P getter to reflect the appropriate attribute (for example, GET_P_PARTNER_TYPE).
- 5. In *Implementation*, define the field type as follows:

```
Syntax
```

endmethod.

2.2 Create V Getter for Business Object Attribute

Create a value help getter (V getter) for your attribute by doing the following:

- 1. Open the component workbench (transaction BSP_WD_CMPWB) and navigate to the component view containing the appropriate attribute.
- 2. Select the *Implementation Class* below the context node used for display to open the Class Builder.
- 3. Copy the _GET_V_XYZ method and rename it to reflect the appropriate attribute (for example, _GET_V_PARTNER_TYPE). A similar process is described in *Create P Getter for Business Object Attribute* [page 9].
- 4. Once you have created the V getter, refresh the configuration so that the picklists are detected properly in the configuration tab.

2.3 Prepare the Value Help Descriptor



To prepare the business object, implement the IF_BSP_WD_VALUEHELP_PLDESCR interface.

It is a good idea to implement this object in the form of a local class in the corresponding context node as described below. Use a global class if you need the value help in more than one place.

2.3.1 Option A: Return Dropdown Content with a Table

In the following example, you prepare a value help for the attribute SEX based on the domain BU_SEX and its built-in attribute list. After setting the parameters for the class, you can use it to retrieve the values for any domain.

1. Select Local Types in the Class Builder to define the local class.

The class definition is as follows:

```
Syntax
```

```
class LCL_VALUEHELP_FOR_DOMAIN definition friends CL_ZCRMCMP__TESTVIEW_CN01.

public section

interfaces: IF_BSP_WD_VALUEHELP_PLDESCR.

methods: CONSTRUCTOR

importing

IV_SOURCE_TYPE type CHAR1.

private section.

data: GT_SELECTION_TABLE

type BSP_WD_DROPDOWN_TABLE.

methods: LOAD_SELECTION_TABLE

importing

IV_DOMAIN_NAME type STRING.

endclass.
```

2. Select *Implementation* to implement the IF_BSP_WD_VALUEHELP_PLDESCR interface:

```
Syntax
```

- * CLASS lcl_valuehelp_for_domain IMPLEMENTATION
- * Local class providing a value help for a domain value

```
class LCL_VALUEHELP_FOR_DOMAIN implementation.
method CONSTRUCTOR.
```

- * Remember if content of dropdown listbox comes from table or context node
- * ... SOURCE_TYPE_TABLE or SOURCE_TYPE_BINDING

 ME->IF_BSP_WD_VALUEHELP_PLDESCR~SOURCE_TYPE = IV_SOURCE_TYPE.

 endmethod. "CONSTRUCTOR

 method IF_BSP_WD_VALUEHELP_PLDESCR~GET_SELECTION_TABLE.



```
Returns cached selection table
    ... called in case table content comes from table
(SOURCE_TYPE_TABLE)
    RT_RESULT = GT_SELECTION_TABLE.
  endmethod.
  method IF_BSP_WD_VALUEHELP_PLDESCR~GET_BINDING_STRING.
  Value help does not come from context node here.
    raise exception type CX_BSP_WD_INCORRECT_IMPLEMENT.
  endmethod.
  method LOAD_SELECTION_TABLE.
    Retrieves content of dropdown listbox
    ... called in case table content comes from table
(SOURCE_TYPE_TABLE)
    Get content for selection table from database
    data: LV_DOMAIN_NAME type DOMNAME.
    LV_DOMAIN_NAME = IV_DOMAIN_NAME.
    data: LT DOMAIN ENTRIES type standard table of DD07V.
    call function 'DD_DOMVALUES_GET'
      exporting
        DOMNAME = LV_DOMAIN_NAME
        LANGU
                 = SY-LANGU
        TEXT
                 = 'X'
      tables
        DD07V TAB = LT DOMAIN ENTRIES.
    if SY-SUBRC <> 0.
     message E009(DMCLG).
    endif.
    Load and remember selection table
                                 type line of
    data: LS_SELECTION_TABLE
BSP_WD_DROPDOWN_TABLE,
          LT_SELECTION_TABLE
                                 type BSP_WD_DROPDOWN_TABLE.
    field-symbols: <DOMAIN_ENTRY> type DD07V.
    loop at LT_DOMAIN_ENTRIES assigning <DOMAIN_ENTRY>.
      LS SELECTION TABLE-KEY = <DOMAIN ENTRY>-VALPOS.
      LS_SELECTION_TABLE-VALUE = <DOMAIN_ENTRY>-DDTEXT.
      append LS_SELECTION_TABLE to LT_SELECTION_TABLE.
```

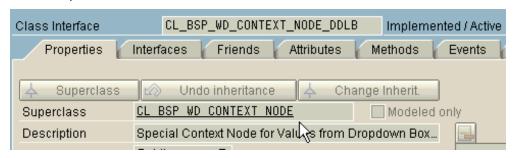


```
endloop.
GT_SELECTION_TABLE = LT_SELECTION_TABLE.
endmethod. "SET_SELECTION_TABLE
endclass.
```

2.3.2 Option B: Return a Binding String

Alternatively, you can implement method GET_BINDING_STRING of your value help descriptor class pointing to a context node (of type CL_BSP_WD_CONTEXT_NODE_DDLB) that holds the content of the dropdown box.

The example below uses the PARTNERTYPES context node:



1. Select Local Types in the Class Builder to define the local class.

The class definition is as follows:

Syntax Syntax

endclass.

```
* Local class providing a context node based value help * class LCL_VALUEHELP_WITH_BINDING definition friends CL_ZCRMCMP__TESTVIEW_CN01.
```

```
public section.

interfaces: IF_BSP_WD_VALUEHELP_PLDESCR.

methods: CONSTRUCTOR

importing

IV_SOURCE_TYPE type CHAR1.

private section.

data: GV_BINDING_STRING

type STRING.

methods: SET_BINDING_STRING

importing

IV_BINDING_STRING type STRING.
```

Select Implementation to implement the IF_BSP_WD_VALUEHELP_PLDESCR interface:



```
Syntax
        CLASS lcl_partner_type_values IMPLEMENTATION
        Local class providing a value help taken from a context
node
class LCL_VALUEHELP_WITH_BINDING implementation.
  method CONSTRUCTOR.
    Remember if content of dropdown listbox comes from table or
context node
    ... SOURCE_TYPE_TABLE or SOURCE_TYPE_BINDING
    ME->IF BSP WD VALUEHELP PLDESCR~SOURCE TYPE = IV SOURCE TYPE.
  endmethod.
                                "CONSTRUCTOR
  method IF_BSP_WD_VALUEHELP_PLDESCR~GET_SELECTION_TABLE.
    Content for value help does not come from table here
    raise exception type CX_BSP_WD_INCORRECT_IMPLEMENT.
  endmethod.
  method IF_BSP_WD_VALUEHELP_PLDESCR~GET_BINDING_STRING.
    Returns binding string
    ... called in case table content comes from context node
(SOURCE_TYPE_BINDING)
    RV_RESULT = GV_BINDING_STRING.
  endmethod.
  method SET_BINDING_STRING.
    Remember
    GV_BINDING_STRING = IV_BINDING_STRING.
  endmethod.
                                 "SET_SELECTION_TABLE
```

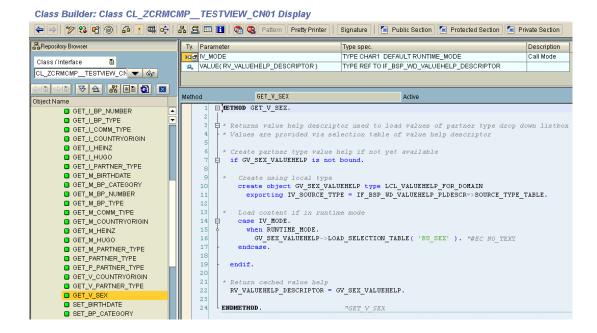
endclass.

2.4 Return the Value Help Descriptor

2.4.1 Option A: Return Dropdown Content with a Table

To return the dropdown content as table data, implement the V getter to return the value help descriptor:





In this example, the descriptor is cached in the GV_VALUE_HELP attribute and is created only if it does not yet exist there. If the value help is operated in runtime mode, the selection table is loaded for the domain name (BU_SEX here). In design time mode there is no need to load the table content.

GV_VALUE_HELP is defined in the *Attributes* tab as GV_SEX_VALUEHELP, Private, with *Type Ref To* LCL_VALUEHELP_FOR_DOMAIN.

The code for the V getters for the SEX and PARTNER_TYPES attributes are as follows:

Syntax

METHOD GET_V_SEX.

- * Returns value help descriptor used to load values of partner type dropdown listbox
- * Values are provided via selection table of value help descriptor
- * Create partner type value help if not yet available if GV_SEX_VALUEHELP is not bound.
- * Create using local type

 create object GV_SEX_VALUEHELP type LCL_VALUEHELP_FOR_DOMAIN

 exporting IV_SOURCE_TYPE =

 IF_BSP_WD_VALUEHELP_PLDESCR=>SOURCE_TYPE_TABLE.
- * Load content if in runtime mode
 case IV_MODE.
 when RUNTIME_MODE.

 GV_SEX_VALUEHELP->LOAD_SELECTION_TABLE('BU_SEX'). "#EC
 NO_TEXT
 endcase.



```
endif.
* Return cached value help
  RV_VALUEHELP_DESCRIPTOR = GV_SEX_VALUEHELP.
ENDMETHOD.
                               "GET_V_SEX
method GET_V_PARTNER_TYPE.
* Returns value help descriptor used to load values of partner
type dropdown listbox
* Values are provided via context node
* Create using local type
  data: LV_PARTNER_TYPE_VALUEHELP type ref to
LCL_VALUEHELP_WITH_BINDING.
  create object LV_PARTNER_TYPE_VALUEHELP
    exporting IV_SOURCE_TYPE =
IF_BSP_WD_VALUEHELP_PLDESCR=>SOURCE_TYPE_BINDING.
    Load content if in runtime mode
  case IV MODE.
    when RUNTIME MODE.
      LV_PARTNER_TYPE_VALUEHELP->SET_BINDING_STRING(
'//PARTNERTYPES/VALUES' )."#EC NO_TEXT
  endcase.
  RV_VALUEHELP_DESCRIPTOR = LV_PARTNER_TYPE_VALUEHELP.
endmethod.
```

You can keep your value help descriptors in a public location that serves as a cache.

2.4.2 Option B: Return a Binding String

The V getter for the partner type operates the value help descriptor in SOURCE_TYPE_BINDING mode and transfers the binding string to the value help descriptor.

You can create the corresponding context node PARTNERTYPES, which holds the content of the dropdown box, with the built-in wizard of the component workbench.

- 1. Select Context Node under Context, and choose Create from the context menu.
- 2. Select *Context Node for Dropdown Box* as the context node type, so that class CL_BSP_WD_CONTEXT_NODE_DDLB is used.
- You can use the DO_INIT_CONTEXT method of the corresponding controller implementation (CL_ZCRMCMP_TESTVIEW_IMPL in this case) to initialize the



dropdown content using method SET_VALUE_TABLE of the dropdown box context node:

```
Syntax
method DO_INIT_CONTEXT.
   data:
      QS type ref to CL_CRM_COL_QUERY_SERVICE,
      COL1 type ref to IF_BOL_BO_COL.
  QS = CL_CRM_BOL_QUERY_SERVICE=>GET_INSTANCE( 'BuilHeaderSearch' ).
  OS->SET PROPERTY( IV ATTR NAME = 'PARTNER' IV VALUE = '*' ).
  QS->SET_PROPERTY( IV_ATTR_NAME = `MAX_HIT' IV_VALUE = `1' ).
   COL1 = QS->GET_QUERY_RESULT( ).
  ME->TYPED_CONTEXT->BP->COLLECTION_WRAPPER->SET_COLLECTION( COL1 ).
* Load content for partner type drop down listbox
* ... Select partner types from database
  data: LT_PARTNER_TYPES
                              type standard table of TB004T,
        LS_PARTNER_TYPE
                              type line of BSP_WD_DROPDOWN_TABLE,
        LT_PARTNER_TYPE_VALUES type BSP_WD_DROPDOWN_TABLE.
  field-symbols: <PARTNER_TYPE> type TB004T.
  select * from TB004T into table LT_PARTNER_TYPES
            where SPRAS eq SY-LANGU.
  loop at LT_PARTNER_TYPES assigning <PARTNER_TYPE>.
      LS_PARTNER_TYPE-KEY = <PARTNER_TYPE>-BPKIND.
      LS PARTNER TYPE-VALUE = <PARTNER TYPE>-TEXT40.
      append LS_PARTNER_TYPE to LT_PARTNER_TYPE_VALUES.
  endloop.
* ... Pass partner type values to context node for drop down listbox
  ME->TYPED_CONTEXT->PARTNERTYPES->SET_VALUE_TABLE(
LT_PARTNER_TYPE_VALUES ).
```

You can define your dropdown box context nodes in a custom controller context, so that you can reuse the cached content in various views with binding.

endmethod.

2.5 Trigger a Server Roundtrip After a Value is Selected



It is possible to trigger a server roundtrip when the dropdown box has been used. To do this, enhance the P getter of the attribute:

1. In Implementation, define the event (here PARTNER_TYPE_SELECTED) as follows:

```
Syntax
method GET P PARTNER TYPE.
   CASE iv_property.
      WHEN IF_BSP_WD_MODEL_SETTER_GETTER=>FP_SERVER_EVENT.
         rv_value = 'partner_type_selected'.
endmethod.
```

2. You can influence the event PARTNER TYPE SELECTED by implementing corresponding reactions in the controller's DO_HANDLE_EVENT method:

```
Syntax
method DO_HANDLE_EVENT.
* Event handler dispatching
case HTMLB_EVENT_EX->EVENT_SERVER_NAME.
   when 'select'.
                                                       *#EC NOTEXT
     EH ONSELECT (
               HTMLB EVENT = HTMLB EVENT
               HTMLB_EVENT_EX = HTMLB_EVENT_EX ).
* Partner type has been selected in drop down list box
   when 'partner_type_selected'.
                                                       *#EC NOTEXT
     EH_ON_PARTNER_TYPE_SELECTED(
               HTMLB EVENT
                              = HTMLB EVENT
               HTMLB_EVENT_EX = HTMLB_EVENT_EX ).
   when others.
endcase.
endmethod.
```

For more information about P getters, see Create P Getter for Business Object Attribute [page 9].

2.6 Provide a Dropdown Box for an Advanced Search

endmethod.



For the advanced search you do not have to implement a V getter. Instead, you must redefine method GET_DQUERY_DEFINITIONS in the implementation class of the view controller. You can fill in table RT_RESULT with information relating to the value help (see structure CRMS_THTMLB_SEARCH_FIELD_INFO and attribute DDLB_OPTIONS).

The following is an example of the code that you can enter in the implementation class of the view controller:

```
Syntax
method GET DQUERY DEFINITIONS.
  data:
   ls_ddlb type CRMS_THTMLB_SEARCH_DDLB_NVP.
  field-symbols: <rt_result> type CRMS_THTMLB_SEARCH_FIELD_INFO.
  CALL METHOD SUPER->GET_DQUERY_DEFINITIONS
    RECEIVING
      RT_RESULT = rt_result.
* DDLB for field "DESCRIPTION"
  read table rt_result with key field = 'DESCRIPTION' assigning
<rt_result>.
  if sy-subrc = 0.
    ls_ddlb-key = 'key1'.
    ls_ddlb-value = 'value1'.
    append ls_ddlb to <rt_result>-DDLB_OPTIONS.
    ls ddlb-key = 'key2'.
    ls_ddlb-value = 'value2'.
    append ls_ddlb to <rt_result>-DDLB_OPTIONS.
  endif.
```