

Dropdown by Index using ALV in Web Dynpro for ABAP



Applies to:

SAP Net Weaver 7.0, Web Dynpro for ABAP. For more information, visit the [Web Dynpro ABAP homepage](#).

Summary

Web dynpro application to demonstrate how to implement drop down by index using ALV.

Some times we may have a requirement to show the different values in each row of an ALV using Drop down. This is possible with dropdown by index using which we can assign different values to each and every row of an ALV. But it is quite different to implement in ALV. Where as in Table ui element we usually create one sub node under the parent node to fill the drop down values. In ALV we can not do the same instead we will take one additional attribute to which we will assign the value set.

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Author Bio

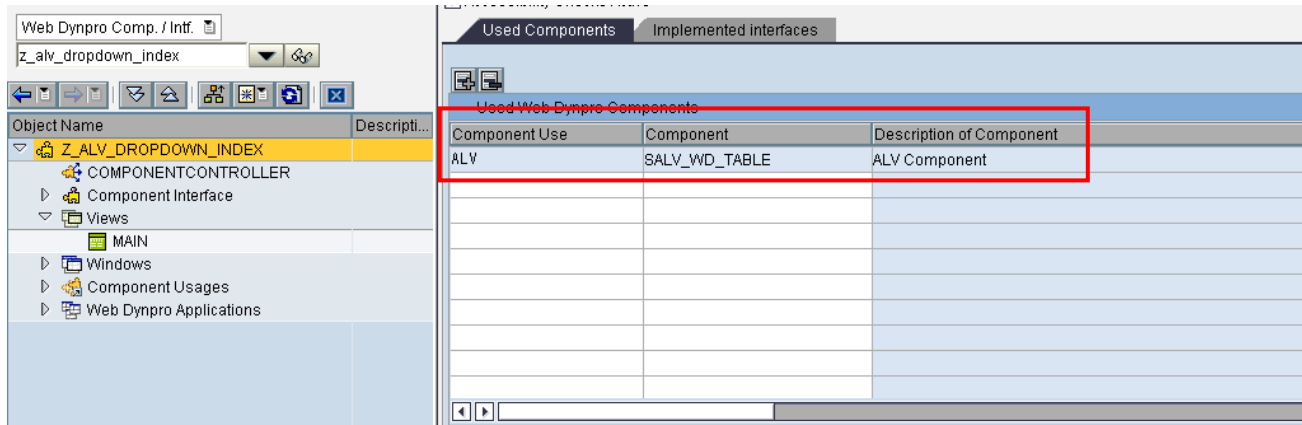
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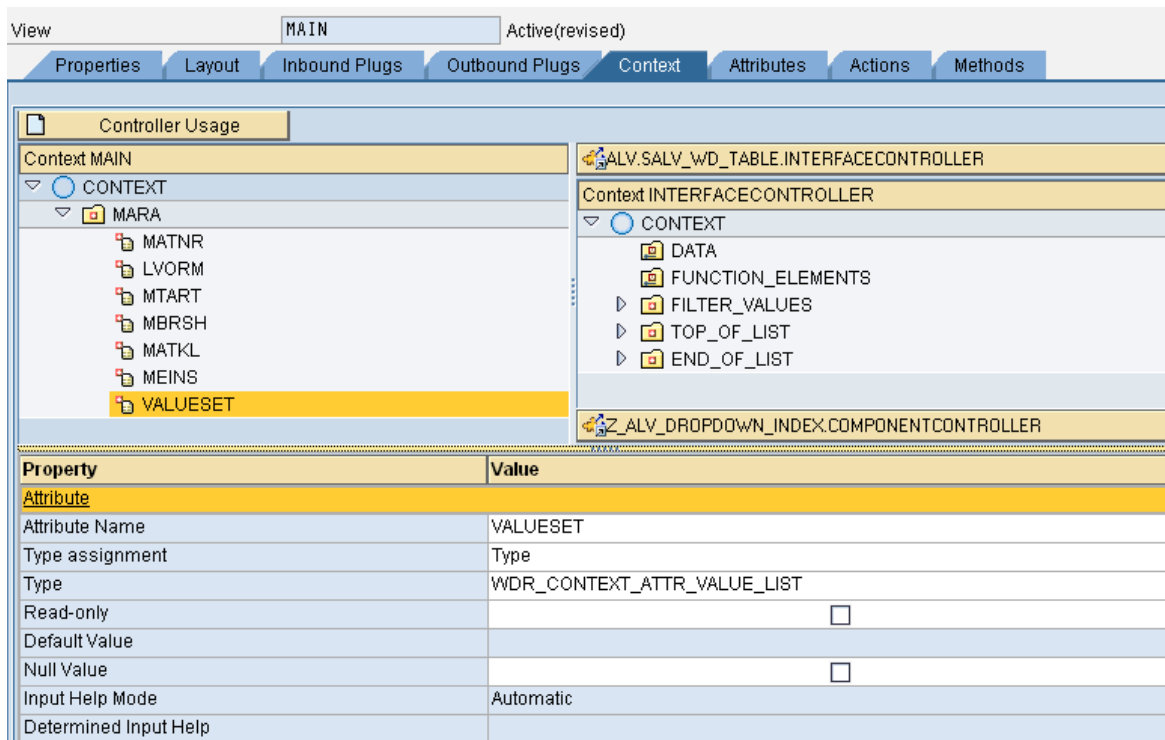
Create a Web Dynpro Component

Create a Web Dynpro component named as Z_ALV_DROPDOWN_INDEX and also create component usage for ALV.



Create a Context node

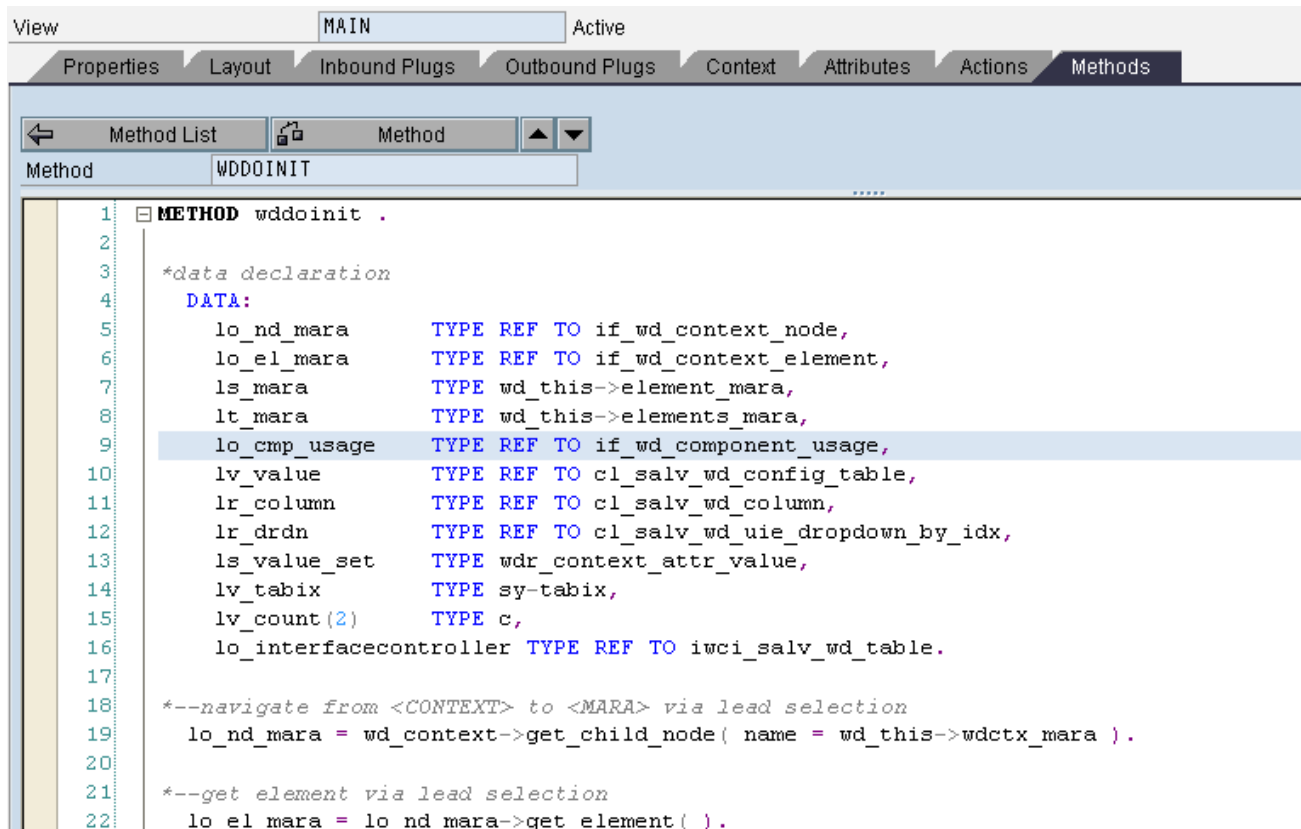
Create a context node as shown in the figure. Create one additional attribute **VALUESET** with type **WDR_CONTEXT_ATTR_VALUE_SET** to hold the values for drop down along with required attributes.



Go to the Layout and insert View container element and named it as VCU_ALV.



Now go to the WDDOINIT method of view **MAIN** to implement required logic.



```

24  *--Get data
25  SELECT *
26  UP TO 5 ROWS
27  FROM mara
28  INTO CORRESPONDING FIELDS OF TABLE lt_mara.
29
30  lv_count = 0.
31
32  *--populate valueset
33  LOOP AT lt_mara INTO ls_mara.
34  lv_tabix = sy-tabix.
35
36  CLEAR ls_mara-mtart.
37
38  DO 3 TIMES.
39  lv_count = lv_count + 1.
40  CONCATENATE 'TEST' lv_count INTO ls_value_set-text.
41  CONCATENATE 'TEST' lv_count INTO ls_value_set-value.
42  APPEND ls_value_set TO ls_mara-valueset.
43  ENDDO.
44
45  MODIFY lt_mara FROM ls_mara INDEX lv_tabix TRANSPORTING mtart valueset.
46
47  ENDLOOP.
48
49  *--Bind data to node <MARA>
50  lo_nd_mara->bind_table( lt_mara ).
51
52  *--Instantiate the ALV
53  lo_cmp_usage = wd_this->wd_cpuse_alv( ).
54  IF lo_cmp_usage->has_active_component( ) IS INITIAL.
55  lo_cmp_usage->create_component( ).
56  ENDIF.
57
58  lo_interfacecontroller = wd_this->wd_cpifc_alv( ).
59
60  *--Bind data to interface controller node
61  lo_interfacecontroller->set_data(
62  *   only_if_new_descr =           " wdy_boolean
63  r_node_data = lo_nd_mara         " ref to if_wd_context_node
64  ).

```

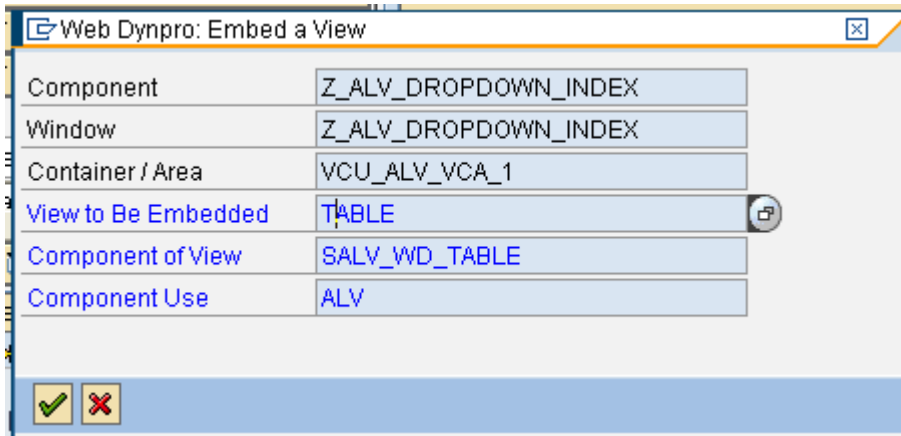
```

66:  *--Get ALV table reference
67:  lv_value = lo_interfacecontroller->get_model( ).
68:
69:  *--Now make the MTART column is drop down by index
70:  CALL METHOD lv_value->if_salv_wd_column_settings~get_column
71:  EXPORTING
72:    id      = 'MTART'
73:  RECEIVING
74:    value = lr_column.
75:
76:  *--Create object for dropdown
77:  CREATE OBJECT lr_drdn
78:  EXPORTING
79:    selected_key_fieldname = 'MTART'.
80:
81:  CALL METHOD lr_drdn->set_valueset_fieldname
82:  EXPORTING
83:    value = 'VALUESSET'. " attribute of context node MARA
84:
85:  CALL METHOD lr_drdn->set_type
86:  EXPORTING
87:    value = if_salv_wd_c_uie_drdn_by_index=>type_key_convert_to_value.
88:
89:  CALL METHOD lr_column->set_cell_editor
90:  EXPORTING
91:    value = lr_drdn.
92:
93:  CALL METHOD lv_value->if_salv_wd_table_settings~set_read_only
94:  EXPORTING
95:    value = abap_false.
96:
97:  ENDMETHOD.

```

Now go to window right click on view MAIN to embed the Interface controller view.

The screenshot displays the SAP Web Dynpro IDE interface. On the left, the 'Object Navigator' shows the project structure for 'Z_ALV_DROPDOWN_INDEX', including 'Component Interface', 'Views', and 'Windows'. The 'MAIN' view is selected. The main workspace shows the 'Window-Struktur' for 'Z_ALV_DROPDOWN_INDEX', with a context menu open over the 'MAIN' view, highlighting the 'Embed View' option. The 'Properties' pane at the bottom is empty.



Output

Now create an application to test the component and the output is.

Material	Cit	MTART	I	Matl Group	BUn
SERVICE-DIP		TEST1	S	SERVICE	AU
EMPLOYEE-OFF			S	SERVICE	AU
DIP-TRAVEL			S	SERVICE	AU
DIP-HARDWARE			S	SERVICE	AU
DIP-COMMUNICATION			S	SERVICE	AU

Material	Cit	MTART	I	Matl Group	BUn
SERVICE-DIP		TEST1	S	SERVICE	AU
EMPLOYEE-OFF		TEST4	S	SERVICE	AU
DIP-TRAVEL		TEST7	S	SERVICE	AU
DIP-HARDWARE		TEST10	S	SERVICE	AU
DIP-COMMUNICATION			S	SERVICE	AU
		TEST13			
		TEST14			
		TEST15			

Related Content

For more information, visit the [Web Dynpro ABAP homepage](#).

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