

Add a New Field to Selection Screen of VL10* Transactions



Applies to:

This article applies to SAP ERP 5.0 or higher.

Summary

This article describes step by step process to add a new field to selection screen of VL10* transactions

Author: Gaurav Jagya

Company: Infosys Technologies Ltd.

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Author Bio



Gaurav is working with Infosys Technologies Limited as an ABAP Consultant. He has 3 years of experience in ABAP and SAP workflows.

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Business Scenario

To add a new field Material type to the Material tab on VL10h transaction selection screen.

Technical Solution

The steps described below cover all the configuration and code changes to add select option for MARA-MTART on selection screen of VL10H transaction under 'Material' tab. The same steps can be used to add any other applicable field on any of VL10* transactions.

Step 1: Configuration changes

1. Find out the applicable scenario for VL10H transaction.
All VL10* transactions (viz. VL10, VL10B, VL10H etc.) internally call transaction VL10X with a scenario. To find out the applicable scenario for a particular VL10 transaction, check parameters of that particular transaction in SE93.
For VL10H, applicable scenario is '0130'. See the screenshot below:

Transaction code	VL10H
Package	VL
Transaction text	Items Due for Delivery

Default values for	
Transaction	VL10X
<input checked="" type="checkbox"/> Skip initial screen	
Obsolete: Use default values for transaction	
Screen	0
From module pool	

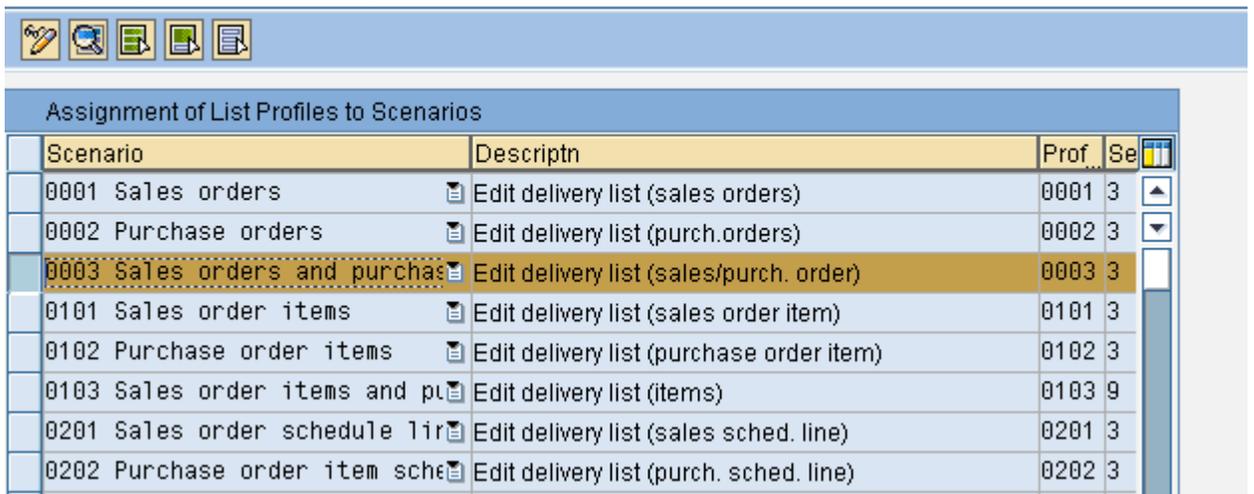
Classification	
<input checked="" type="checkbox"/> Inherit GUI attributes	
Transaction classification	
<input checked="" type="radio"/> Professional User Transaction	
<input type="radio"/> Easy Web Transaction	Service
<input type="checkbox"/> Pervasive enabled	

GUI support	
<input checked="" type="checkbox"/> SAPGUI for HTML	
<input checked="" type="checkbox"/> SAPGUI for Java	
<input checked="" type="checkbox"/> SAPGUI for Windows	

Default Values	
Name of screen field	Value
SZENARIO	0103

- Go to transaction TX VL10CU (Logistics Execution -> Shipping -> Worklists -> Assignment of List Profile to Delivery Scenario)

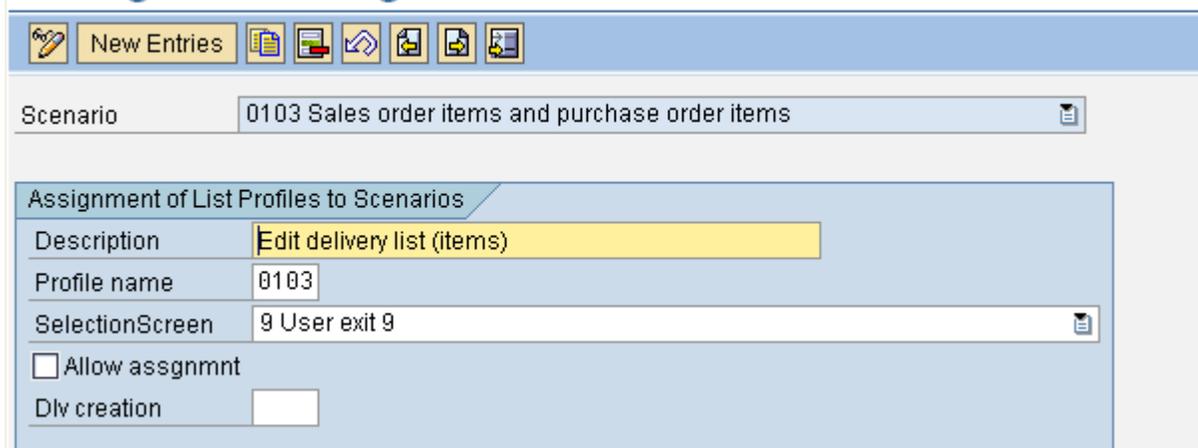
Display View "Assignment of List Profiles to Scenarios": Overview



Scenario	Description	Prof.	Se
0001 Sales orders	Edit delivery list (sales orders)	0001	3
0002 Purchase orders	Edit delivery list (purch.orders)	0002	3
0003 Sales orders and purchase orders	Edit delivery list (sales/purch. order)	0003	3
0101 Sales order items	Edit delivery list (sales order item)	0101	3
0102 Purchase order items	Edit delivery list (purchase order item)	0102	3
0103 Sales order items and purchase order items	Edit delivery list (items)	0103	9
0201 Sales order schedule line items	Edit delivery list (sales sched. line)	0201	3
0202 Purchase order item schedule line items	Edit delivery list (purch. sched. line)	0202	3

- Select the row corresponding to applicable scenario (0103 in case of VL10H) and click display.
- Change value of parameter 'SelectionScreen' to '9 User exit 9' (select from dropdown).

Change View "Assignment of List Profiles to Scenarios": Details



Scenario: 0103 Sales order items and purchase order items

Assignment of List Profiles to Scenarios

Description: Edit delivery list (items)

Profile name: 0103

SelectionScreen: 9 User exit 9

Allow assignment

Dlv creation:

- Save and come out.

Note: After this change, the standard selection screen used for VL10H will be removed and till a new screen is created and assigned in User exit, this transaction will not show any selection screen. So, one may choose to do this step when new selection screen is ready to be attached.

Step 2: Create new selection screen with desired new field.

As the objective is just to add a new field on selection screen without changing others, so, a copy of standard selection screen will be created. Follow the steps:

1. Copy program **RVV50R10C** to **ZRVV50R10C** and include **V50RSEL3** to **ZV50RSEL3**.
2. Inside include **V50RSEL3** there are further includes one for each block (or tab). With each include a comment is left stating which tab it is defined for. The objective is to identify the particular include, copy it and replace it in program.
For this particular scenario, copy V50RSEL_BLOCK_C to ZV50RSEL_BLOCK_C.
3. Create a new include ZV50RSEL_MTART to define the new select option. This include will be called inside ZV50RSEL_BLOCK_C.
4. Write the declaration of new select-option inside include ZV50RSEL_MTART.
DATA: V_MTART TYPE MARA-MTART.
SELECT-OPTIONS: ST_MTART FOR V_MTART.
5. Maintain Selection text for new select option.
Go to --> Text Elements --> Selection texts. Against Name ST_MTART click on check box 'From dictionary' or alternatively add text, if custom text is required.

Step 3: Assign new selection screen to the transaction.

After creation of selection screen, it is required to include its call statement in user exit SEL_SCREEN_USER (Include LV50R_PREFZ1). To do the changes in this user exit, an access key is required (please contact your basis team or system administrator for the same). Follow the steps:

1. Open include LV50R_PREFZ1 in change mode. It will ask for an access key. Enter the same and proceed.
2. Inside form SEL_SCREEN_USER add the following piece of code:

```
SUBMIT ZRVV50R10C      WITH P_PROFIL = GX_LIST_PROFIL
                      VIA SELECTION-SCREEN
                      AND RETURN.
```

3. The above code will call new selection screen for VL10H. So once this code is activated, the new select option 'Material Type' would appear on screen under tab 'Material' for VL10H.

Step 4: Create range to carry screen values of new select option.

This step involves creation of a range for new select-option and appending the same to structure SHP_VL10_SELECT_OPTIONS.

1. Create a structure **ZMTART_RANGE** in Se11 with following fields:

SIGN	(Component type)	SIGN
OPTION	(Component type)	OPTI
LOW	(Component type)	LGORT_D
HIGH	(Component type)	LGORT_D
2. Again in SE11, create a table type ZMTART_RANGE_T with line type ZMTART_RANGE.
3. Create and append structure with name ZSELECT_OPTIONS to structure SHP_VL10_SELECT_OPTIONS.
4. Add following field to structure ZSELECT_OPTIONS:

MTART	(Component type)	ZMTART_RANGE_T
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Step 5: Transfer values from selection screen to range.

For this step, again an access key is required to modify include V50R_USEREXIT_TRANSF.

1. Open include V50R_USEREXIT_TRANSF in change mode. It will ask for an access key. Enter the same and proceed.
2. Write following line of code inside form USEREXIT_SELECT_OPTIONS_TRANSF:
CX_SELECT_OPTIONS-MTART = ST_MTART[] .

Step 6: Using new select-option to filter out final list.

For filtering out the final list of documents based on new selection criteria, SAP provides a set of userexits for all documents and userexits specific to Sales Orders, Purchase orders and deliveries. For a complete list of such user exits one can refer to [Note 198137](#).

For this scenario, however, we will use userexit POS_ITEM_FILL_USER (include LV50R_VIEWG02). Again an access key is required to modify this include. Once you have the access key, follow the steps:

1. Open include LV50R_VIEWG02 in change mode.
2. Add following piece of code to inside FORM POS_ITEM_FILL_USER.

```
DATA: V_MTART TYPE MTART .
SELECT SINGLE MTART
      INTO V_MTART
      FROM MARA
      WHERE MATNR EQ CS_POSTAB-MATNR
      AND MTART IN IX_SELECT_OPTIONS-MTART[ ] .
IF SY-SUBRC IS NOT INITIAL.
  CF_SUBRC = 1 .
ENDIF .
```

All the entries for which CF_SUBRC is set to 1 will not appear in output.

Related Content

Following are some links from SDN with related content:

<https://forums.sdn.sap.com/thread.jspa?threadID=397374>

<https://forums.sdn.sap.com/thread.jspa?threadID=339957>

Useful SAP Notes:

<https://service.sap.com/sap/support/notes/198137>

<https://service.sap.com/sap/support/notes/524424>

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

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