Creating Transaction and Screen Variants

Applies to:

Tested on SAP version ECC 6.

Summary

This article explain a way to create Transaction and Screen Variants to change screen layouts. And how to assign those transactions and screens variants to a group of users.

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Author Bio

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SAP Certified Professional.

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Introduction

Transaction variants can be used to simplify transaction flow by:

- Inserting default values for fields
- Hiding and changing fields to read only
- Hiding and changing the attributes of tables of control columns
- Hiding individual menu functions
- Hiding entire screens

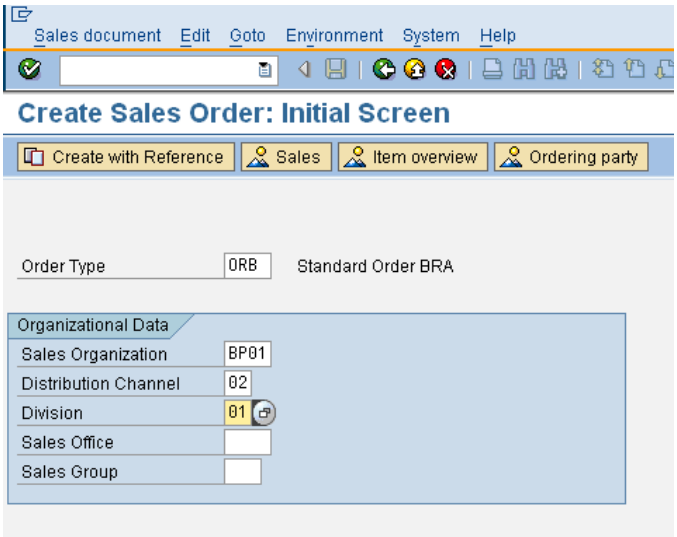
And a transaction variant is made up of a series of screen variants.

Screen variant contains field values and attributes for exactly one screen. A screen variant may be assigned to multiple transaction variants and it can also be called at runtime by a program. The different possibilities for calling screen variants guarantee great flexibility of use.

Transaction and Screen Variants

The purpose in the example is:

- Set default values for Order Type / Sales and Distribution / Distribution Chanel / Division and change the fields to read only;



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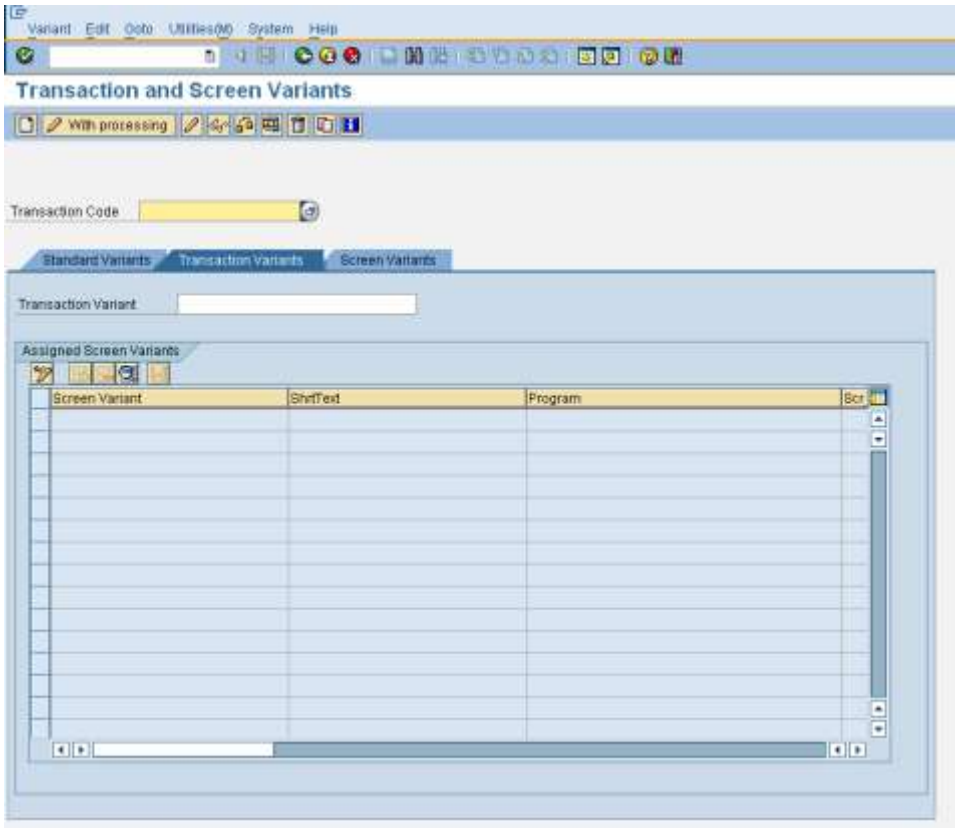
To starting the process call transaction SHD0.



In the screen you have 3 tabs:

- **Standard Variants** – used to assign Transaction Variants to standard transaction; create and assign Variant Groups to specifics users;
- **Transaction Variants** – create Transaction Variants and assign Screen Variants;
- **Screen Variants** – create Screen Variants.

Creating the Transaction Variant

Like I said before, a Transaction Variant is made up a set of screen variants. You can create the Screen Variant first and then create Transaction Variant or create both at the same time while you are creating the Transaction Variant.

In our example we are going to create both in the same step.

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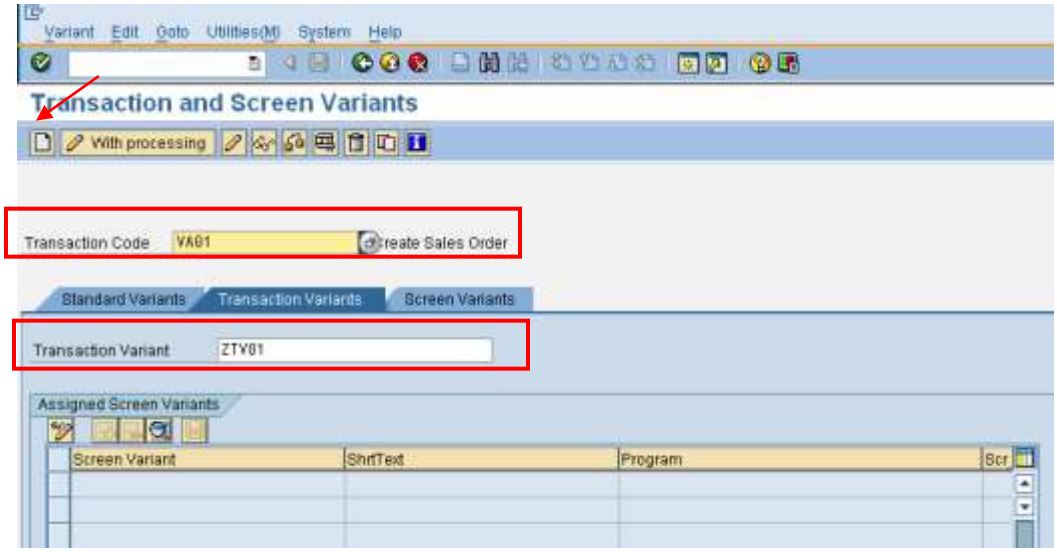
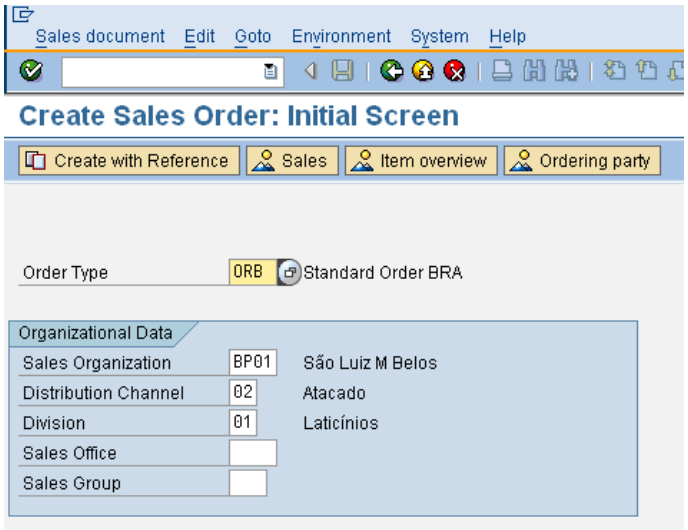
In the initial screen inform which transaction code you wish to create the variant and then inform the name for the Transaction Variant. After that click button 'Create (F5)'



The system will call TCode VA01, fill in the fields and press Enter.



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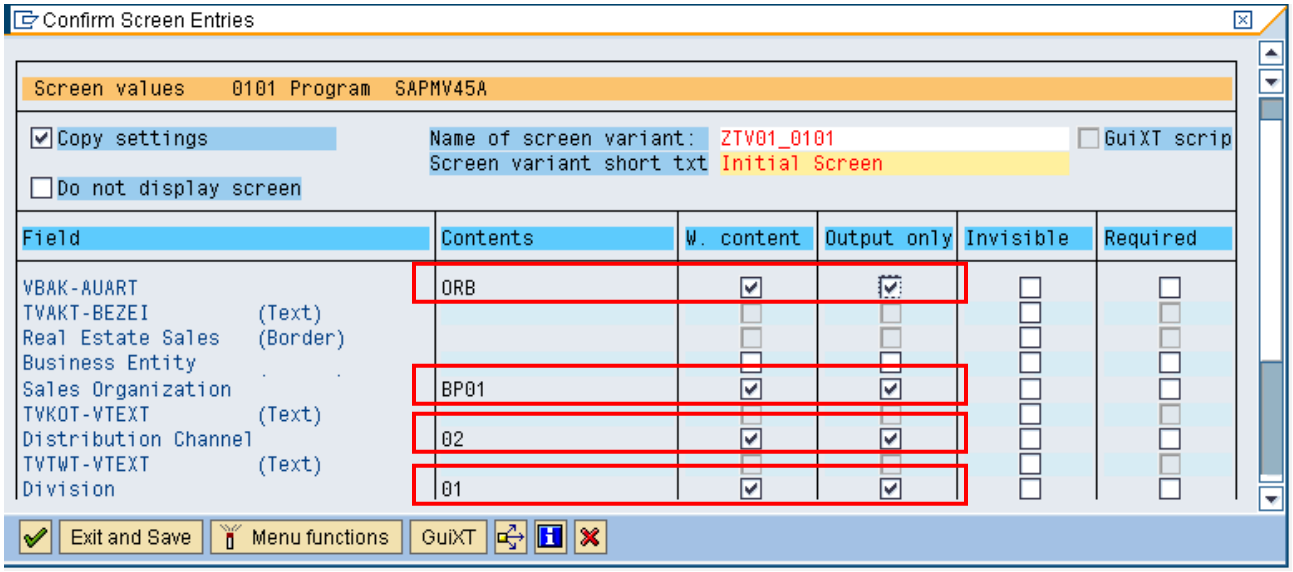
After, a configuration screen will be showed to confirm the screen entries. In this step you should flag of the fields you want to change 'W.content' for set the value as default and 'Output only' for read only.



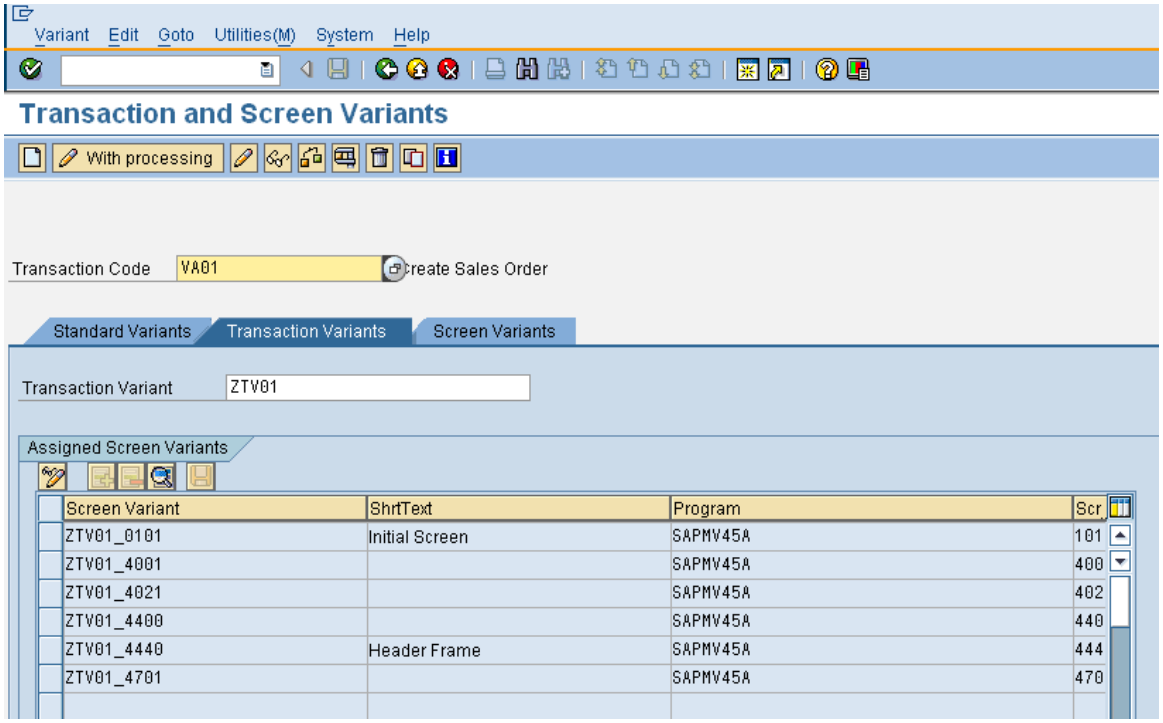
Press 'Exit and Save' to finish the process.

In the new screen you can check your work and/or change it if you need.

Save the project and press 'Back (F3)' to return for the initial screen.

If you want change fields in others screens of transaction VA01 press button 'Continue (Enter)'.

Now, you have created the Transaction Variant with its Screen Variants. In our examples we need just Screens Variants ZTV01_0101. If there are others, you can remove from ZTV01 and delete it in the tab Screen Variants.



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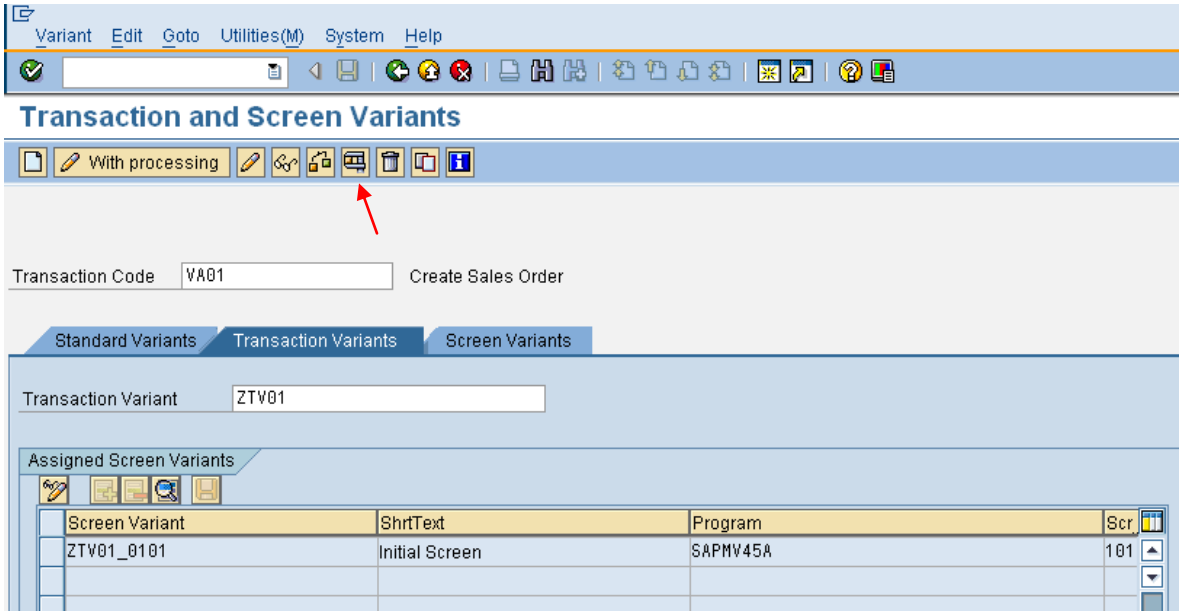
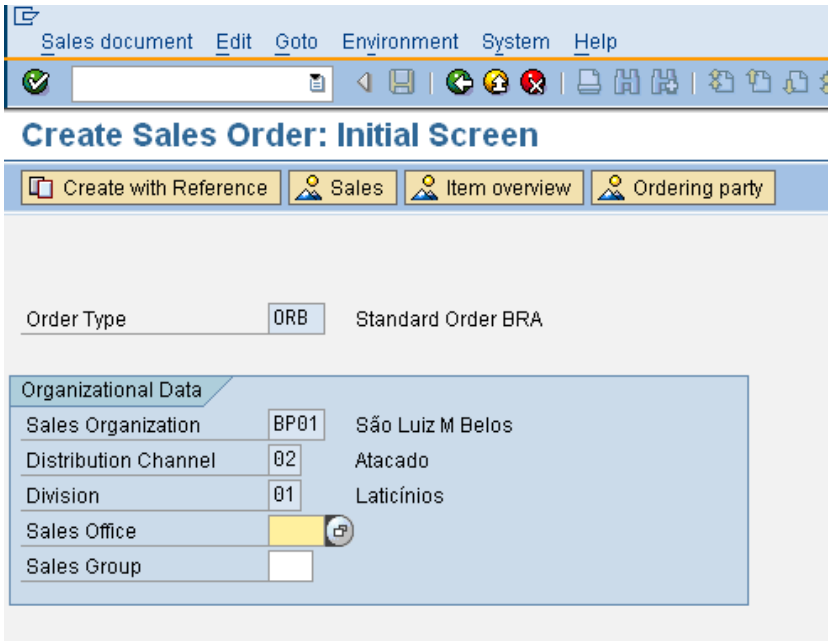
Now check your work pressing button ‘Test (F8)’.





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Using Transaction and Screen Variants

You have many ways to use it. I am going to show 3 forms of use:

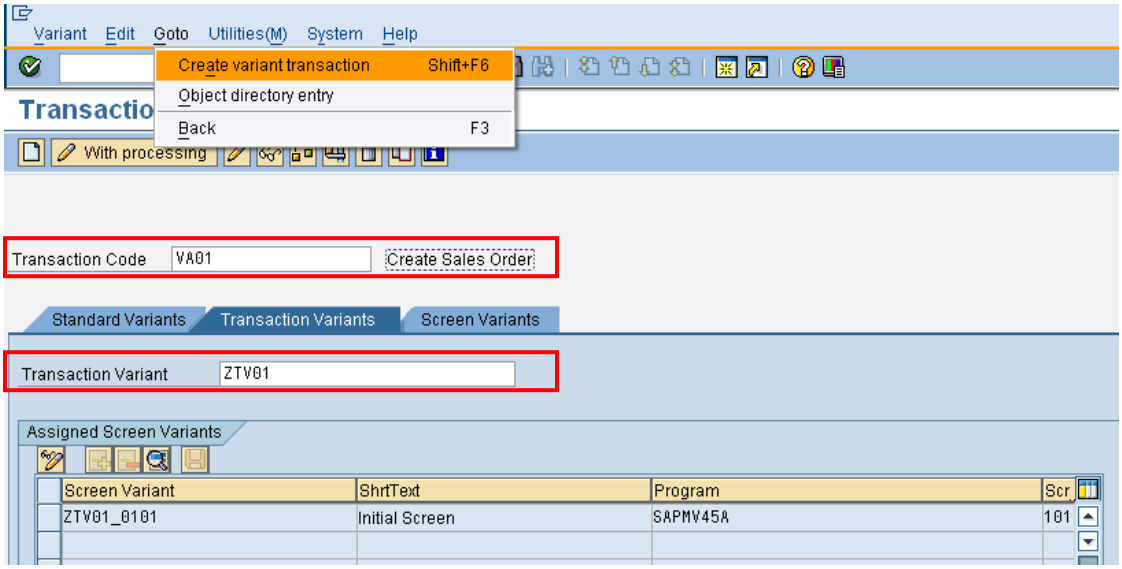
1. Creating a new transaction code;
2. Assigning the new Transaction Variant created to VA01;
3. Assigning to a sales document type.

Creating a New Transaction Code

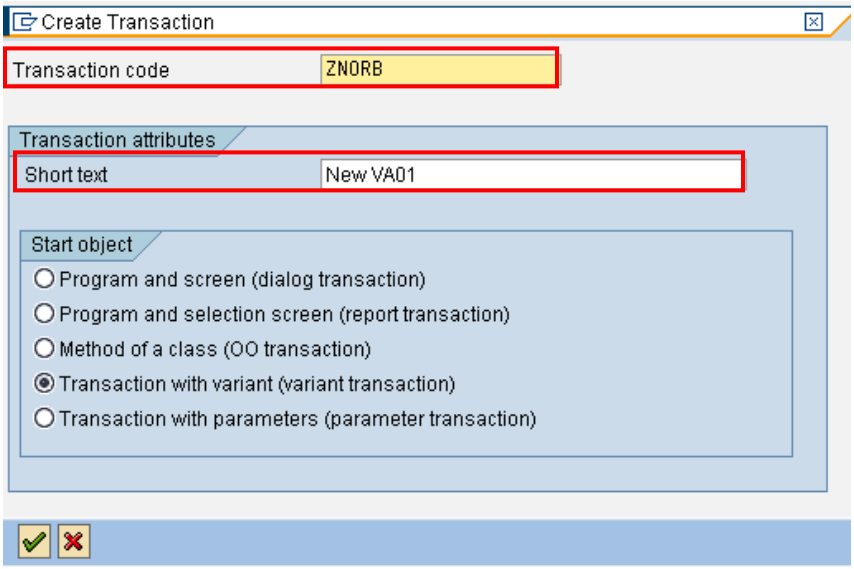
You can create a new transaction code that use the new Transaction Variant created.

Call transaction SHD0 and fill in 'Transaction Code' and 'Transaction Variant'.

After go to menu Goto -> Create variant transaction



In the new screen choose the new name for transaction and its description.



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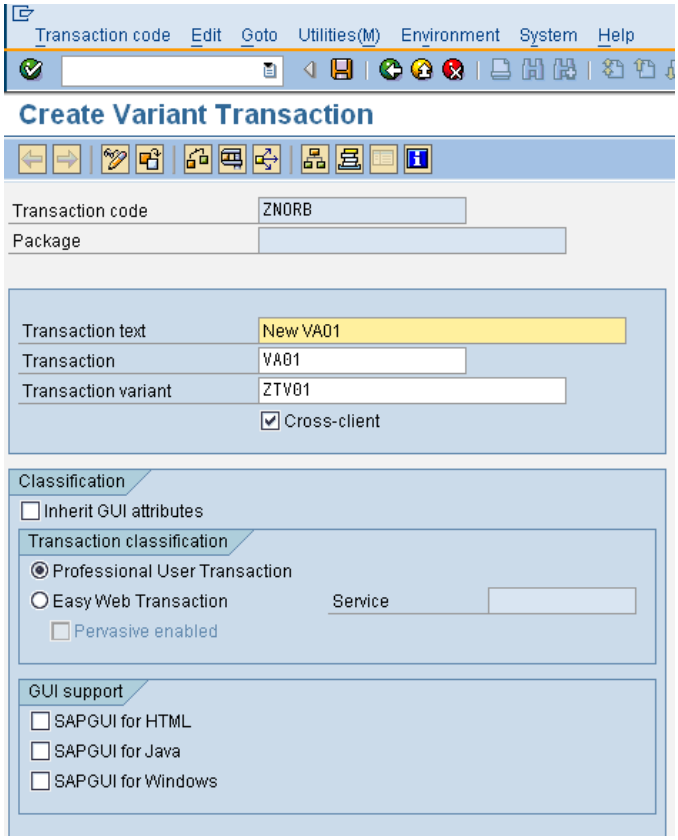
Click continue and save it.



Now you can use the new transaction code.

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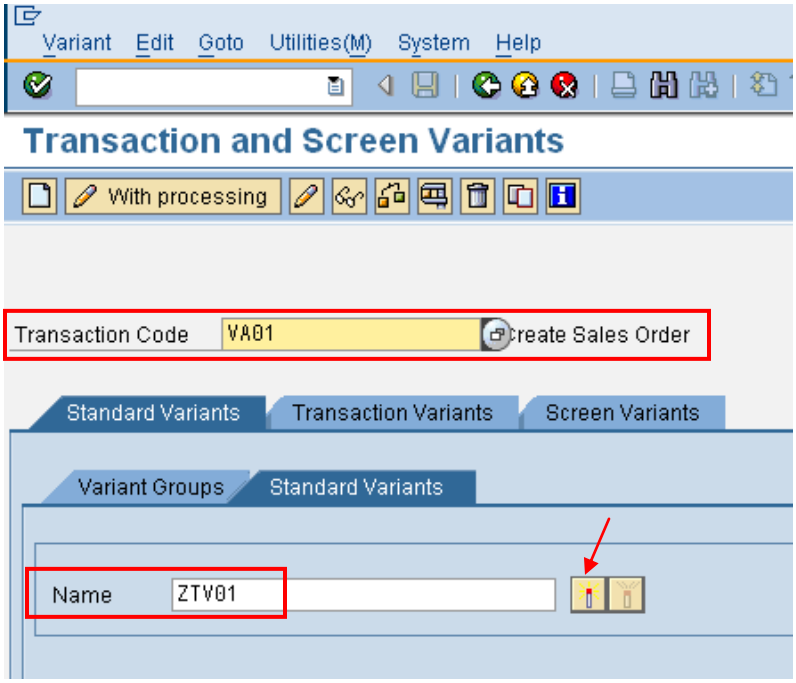
Assigning the new Transaction Variant Created to VA01

You can assign the new Transaction Variant created to standard transaction VA01.

Call transaction SHD0 and click tabs ‘Standard Variants’ and ‘Standard Variants’.

Fill field ‘Transaction Code’ with VA01 and the field ‘Name’ with the Transaction Variant created.

After, click the button Activate.



Now every time you call VA01 the fields will be read only and with default values.

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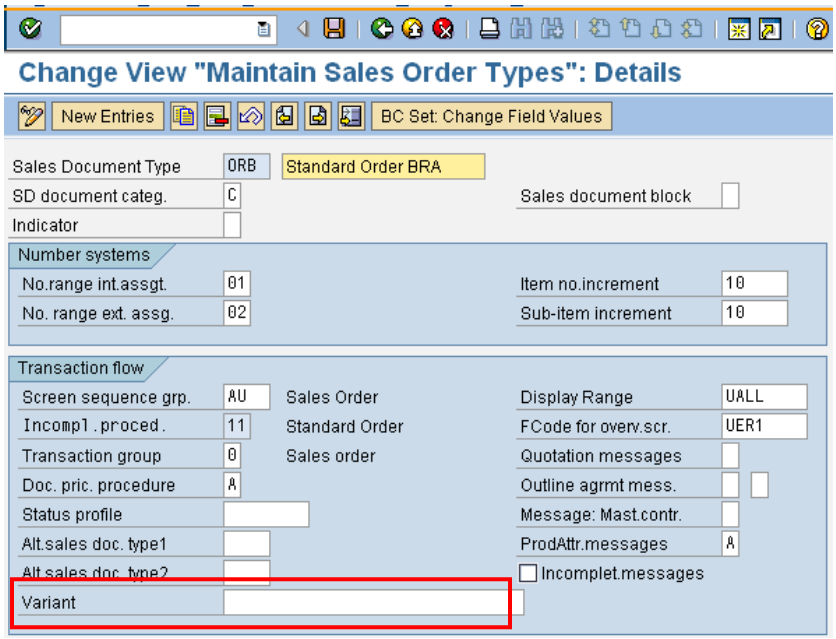
Assigning to a Sales Document Type

You can also assign Transaction Variants to sales document type.

Call transaction VOV8, choose the sales document type and select the Transaction Variant to be used with the sales document.



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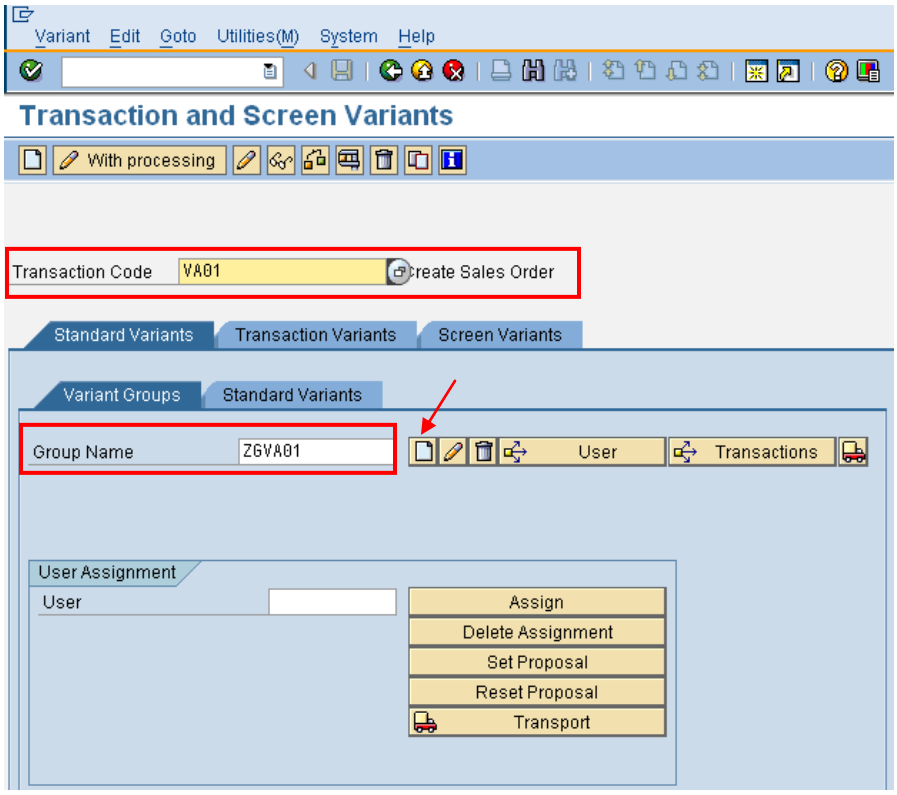
Assign Transaction Variants to a Group of Users

You need change VA01 layout just for a few users. If you assign the Transaction Variant to transaction VA01 the changes will affect all the users that use the transaction. As a solution you can create a Variant Group and assign the users to the group.

Call transaction SHD0, go to tabs ‘Standard Variants’ -> ‘Variant Groups’, fill ‘Transaction Code’, choose a ‘Group Name’ and click button ‘Create’.



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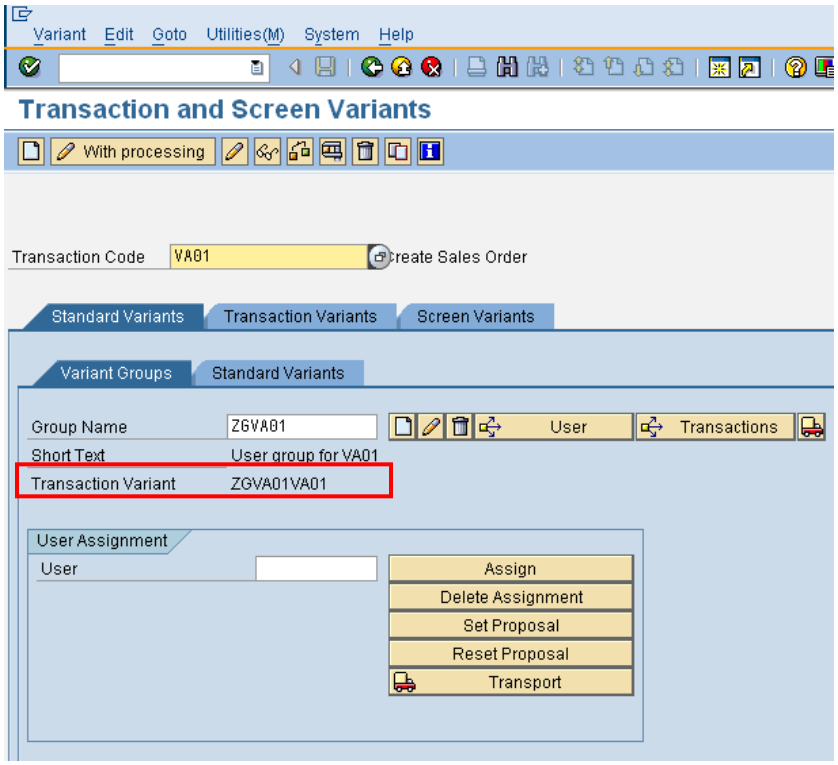
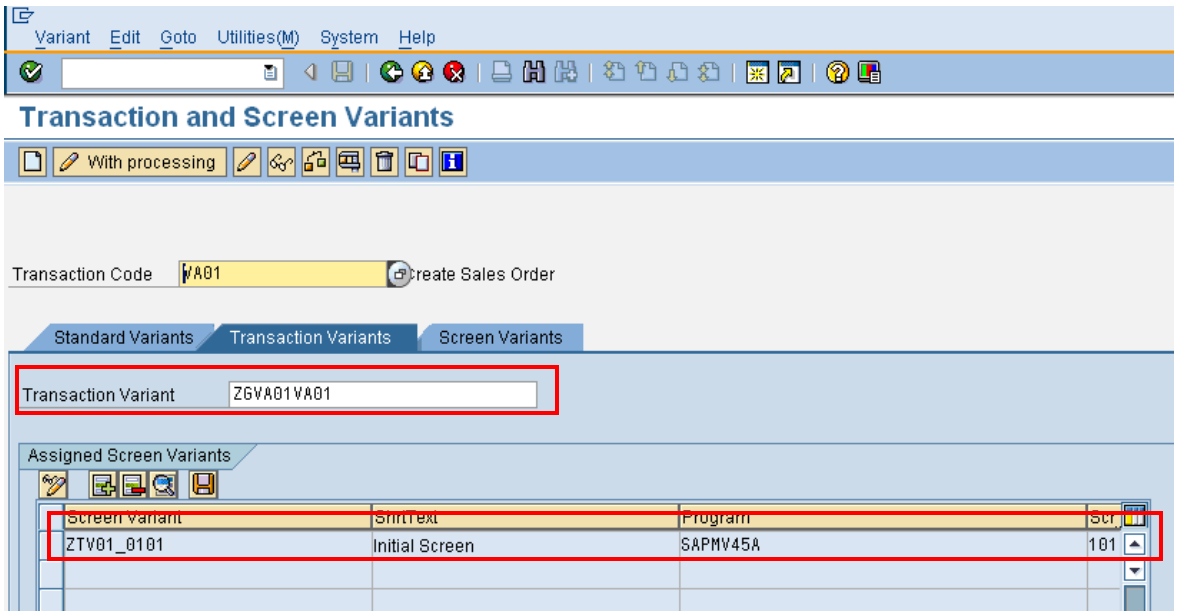
After that, a new Transaction Variant will be created.



Change to tab ‘Transaction Variants’ and just assign the Screen Variant created before.



Back again to tabs ‘Standard Variants’ -> ‘Variant Groups’ and assign the users to the group.

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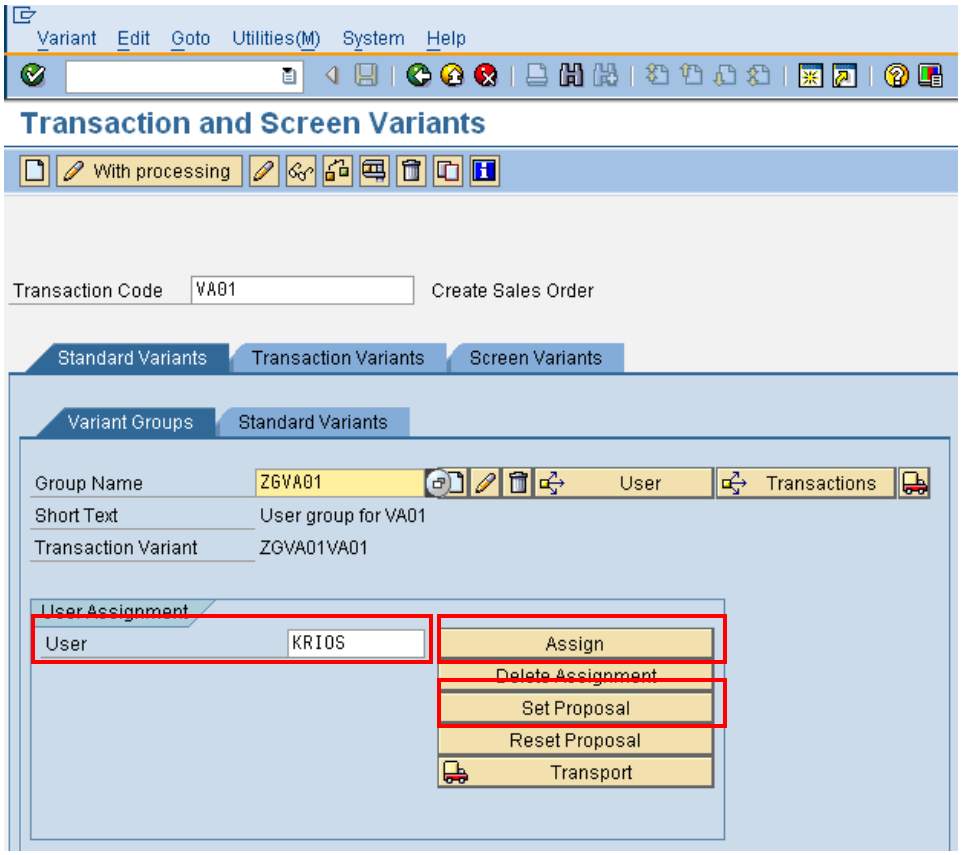
Put the user in the field ‘User’, press button ‘Assign’ to add to the group and press ‘Set Proposal’ to active the Transaction Variant for the user.



Now, all the users that you have assigned to group will have VA01 changed based on the Transaction Variant.

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Related Content

Transaction Variants and Screen Variants

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