

SAP Business One How-To Guide



PUBLIC

How to Work with User-Defined Objects

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Introduction

In SAP Business One, you can use User-defined objects (UDOs) to create forms without writing code and implement your own business logic. This document describes how to use UDOs to create your own sales plan.

For more information about user-defined fields (UDFs), user-defined tables (UDTs), and user-defined values, see the following help documentation, which you can download from the documentation area of SAP Business One Customer Portal at <http://service.sap.com/smb/sbocustomer/documentation>:

- SAP Business One online help
- SDK Help Center
- *How to Create User-Defined Fields and Tables*
- *How to Define and Use User-Defined Values*

Example: Creating a Sales Plan via UDO

A sales plan comprises the sales targets that a company developed based on its historical sales records, its business development, and the reality of the market. Companies use sales plans to recommend appropriate sales, production, procurement, and other business activities within a certain period of time. A sales plan can be divided into three dimensions: customer, item/item group, and sales employee, making it is easier for the system administrator or sales employee to get the overview of the sales completion progress at any time. It can also provide a basis for developing the sales plans for the next time period.

Procedures

The UDO features in SAP Business One enable you to implement the business logic of the sales plan. You can perform the following process to create your sales plan:

1. [Create user-defined tables and user-defined fields](#)
2. [Create UDOs using the user-defined object registration wizard](#)
3. [Create user-defined values](#)
4. [In the Screen Painter add-on, edit the UDO layout, and add choose from lists and link buttons](#)

Step 1: Creating User-Defined Tables and User-Defined Fields

According to the business requirements of the sales plan, you need to create the following tables:

- SPLAN – main table for the sales plan (a master data type table)
- SPLAN_C – child table for the customer dimension (a master data lines child table)
- SPLAN_I – child table for the item group dimension (a master data lines child table)
- SPLAN_E – child table for the sales employee dimension (a master data lines child table)

The user-defined tables contain the following user-defined fields:

Table SPLAN

Field	Description	Data Type
From	Start date of the sales plan	Date
To	Finish date of the sales plan	Date
Target	Sales targets	Amount
Done	Completed sales amount	Amount
Owner	ID of the responsible person	Alphanumeric
Ownername	Name of the responsible person	Alphanumeric

Table SPLAN_C

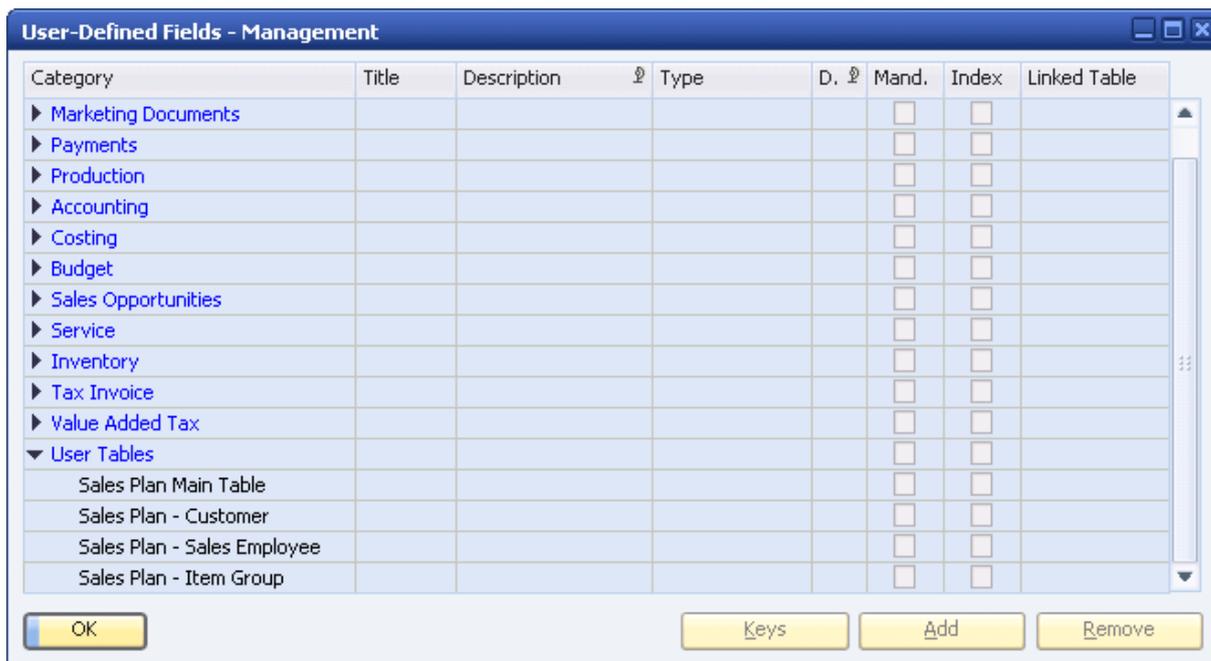
Field	Description	Data Type
CardCode	Code of the business partner	Alphanumeric
CardName	Name of the business partner	Alphanumeric
Pro_C	Completion percentage	Percents
Linetotal_C	Sales targets for the customer	Amount
Done_C	Completed sales amount	Amount

Table SPLAN_I

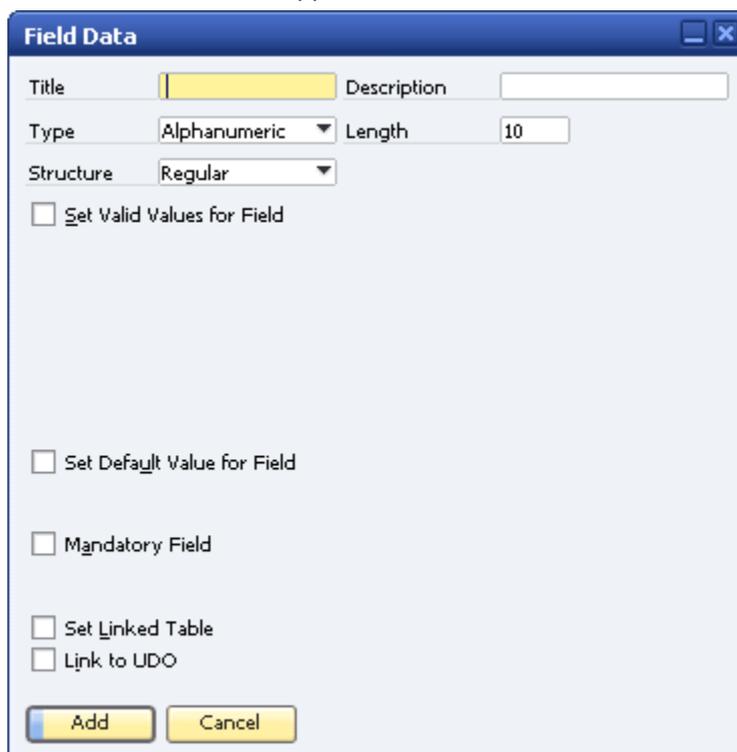
Field	Description (optional)	Data Type
GroupCode	Code of the item group	Alphanumeric
GroupName	Name of the item group	Alphanumeric
Pro_I	Completion percentage	Percents
Linetotal_I	Sales targets for the item group	Amount
Done_I	Completed sales amount	Amount

Table SPLAN_E

Field	Description (optional)	Data Type
SlpCode	Code of the sales employee	Alphanumeric
SlpName	Name of the sales employee	Alphanumeric
Pro_E	Completion percentage	Percents



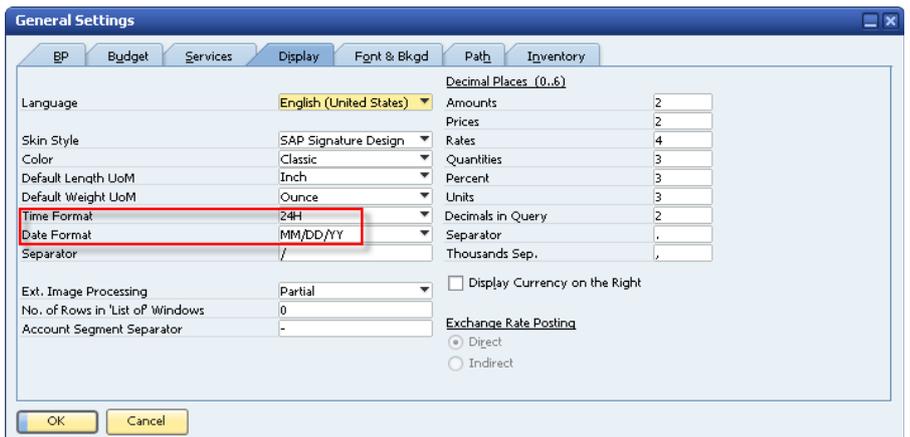
4. In the *User-Defined Fields - Management* window, select the user table to which you want to add a field, and choose the *Add* button.
The *Field Data* window appears.

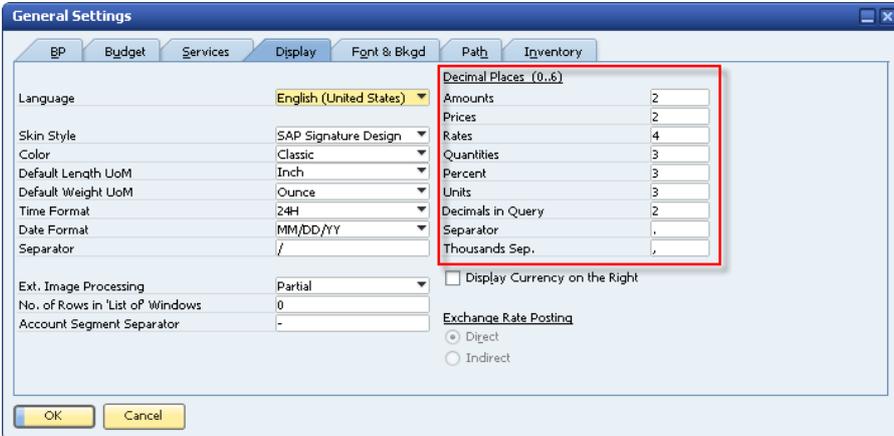
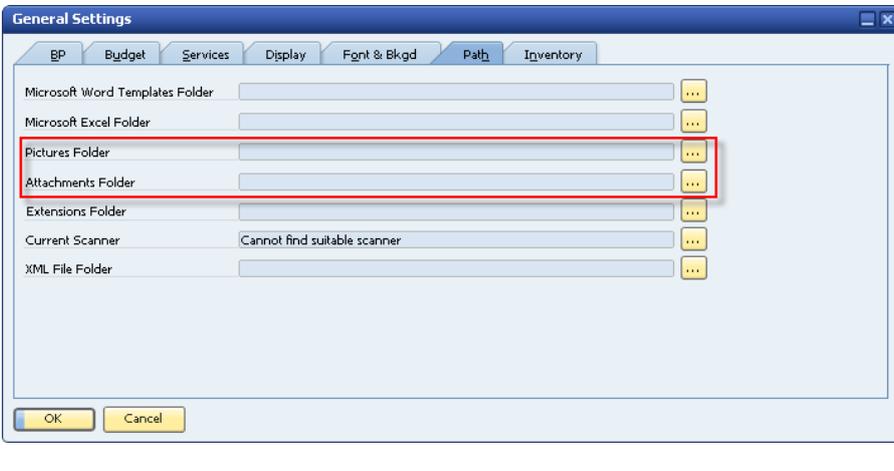


5. Specify the name and type of field by entering the following fields in the *Field Data* form:
 - o **Title:** The field name.
The *Title* value cannot contain spaces or special characters.
A field is added to the database with the prefix `U_` followed by the field name specified here. The full name, with the prefix, is displayed in the query generator when you view a table's list of fields.
 - o **Description:** The field display name.

- **Length:** The size of the field.
 If the field type is *Alphanumeric*, the length is the maximum number of characters.
 If the field is *Numeric*, the length is one more than the maximum number of digits. For example, to allow you to enter up to 10 digits, specify 11.
- **Type and Structure:** Describes the type of data to be contained in the field.
 The type and structure determines the type of data that can be entered into each field and how it is displayed. The following table describes the *Type* field options and the *Structure* field options for each type:

Type	Description / Structure Options
<i>Alphanumeric</i>	A series of characters. The following are the structure options for this type: <ul style="list-style-type: none"> • Regular: Lets you enter up to 254 characters. • Address: For future use. Telephone No.: If automatic dialing is set up, lets you dial the number by clicking it. • Text: Lets you enter: <ul style="list-style-type: none"> ○ 2 GB of text in header fields ○ 255 KB of text in row fields
<i>Numeric</i>	Integers up to 10 digits long. There are no structure options for this type.
<i>Date/Time</i>	Date or time. The following are the structure options for this type: <ul style="list-style-type: none"> • Date: Lets you enter a date. • Time: Lets you enter a time. The display format for dates and time is determined by system initialization settings, located in <i>Administration</i> → <i>System Initialization</i> → <i>General Settings</i> → <i>Display</i> tab.

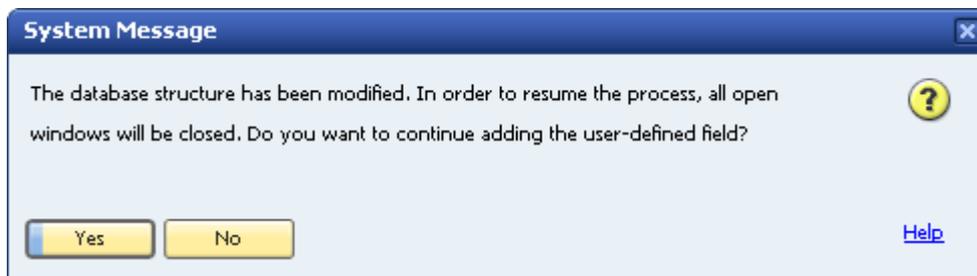


Type	Description / Structure Options
<p><i>Units and Totals</i></p>	<p>Integer and decimal numbers.</p> <p>The following are the structure options for this type:</p> <ul style="list-style-type: none"> • Rate • Amount • Price • Quantity • Percents • Measure <p>The structures are identical except for the display format. The formats are determined by system initialization settings on the <i>Display</i> tab in <i>Administration</i> → <i>System Initialization</i> → <i>General Settings</i>.</p> 
<p><i>General</i></p>	<p>Links and images.</p> <p>The following are the structure options for this type:</p> <ul style="list-style-type: none"> • Link: Lets you enter a link to a file or to a Web address • Image: Lets you enter a link to a picture <p>When you add a link to a file/picture, the file/picture is copied to folders specified in the initialization settings. You must specify these folders on the <i>Path</i> tab in <i>Administration</i> → <i>System Initialization</i> → <i>General Settings</i>. Specify a folder for files (attachments) and another for pictures.</p> 

6. Choose the *Add* button.



The following message is displayed:



To add the field, click the Yes button.

Result

The following occurs when you add a user-defined table:

- Information about the new table is stored in the OUTB table (User Tables).
- The prefix @ is added to the name of the table in the database table, indicating that it is a user-defined table.
- You can use this table in queries.
- If this table is linked to a user-defined field, then in the *Query Generator*, the user-defined field appears in bold in this table, indicating it is related to another table. You can drag this user-defined field to use the user-defined table for the query.

The following occurs when you add a user-defined field:

- Information about the new field (such as its name, its size, and the table to which it was added) is stored in the CUF1 table (user field definition table).
- The field is added to the relevant table. The prefix **U_** is added to the name of the field in the database table, indicating that it is a user-defined field.
- If you enter valid values, they are added to the UFD1 table.

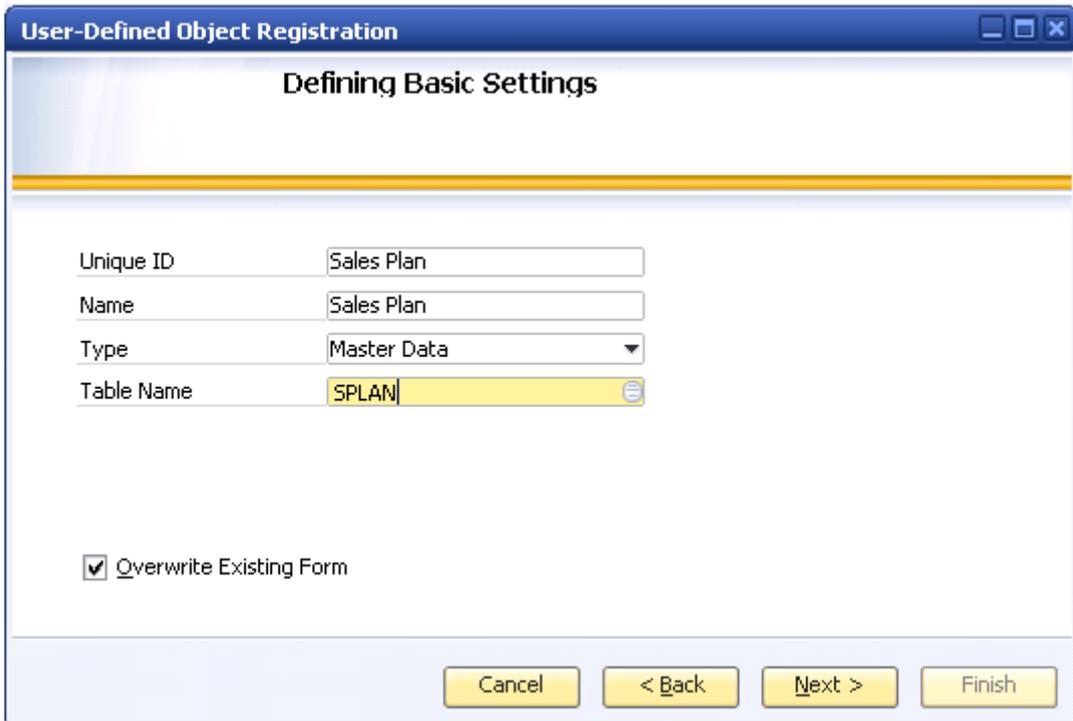
Step 2: Creating User-Defined Objects (UDOs)

Define or register your new object and add it to the SAP Business One objects collection.

Procedures

To register your UDO, perform the following steps:

1. In the menu bar, choose *Tools* → *Customization Tools* → *Objects Registration Wizard*.
Choose *Next* to continue to a series of windows (choose *Finish* at any step if no additional settings are required).
2. In the *Selecting the Registration Mode* window, select *Add a New Object*.
3. In the *Defining Basic Settings* window, enter the unique ID and the UDO name, select a type for the UDO, and specify the database table for the UDO.



The screenshot shows the 'User-Defined Object Registration' dialog box with the 'Defining Basic Settings' tab selected. The fields are filled as follows:

- Unique ID: Sales Plan
- Name: Sales Plan
- Type: Master Data
- Table Name: SPLAN

The 'Overwrite Existing Form' checkbox is checked. At the bottom, there are four buttons: 'Cancel', '< Back', 'Next >', and 'Finish'.

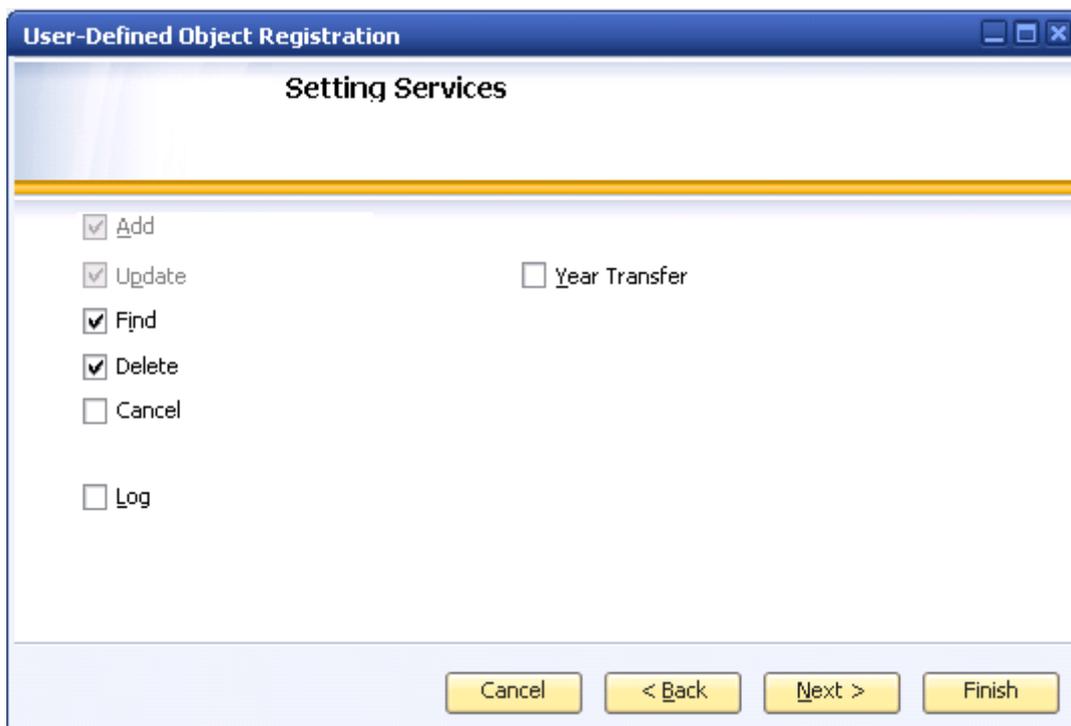
4. In the *Setting Services* window, select the services to be available for your object.
SAP Business One provides the following built-in services that you can add to your object:

Service	User Action and Values
Add	Enables you to add a new record to the object's user tables.
Update	Enables you to update an existing record in the object's user tables.
Find	Enables the <i>Choose From List</i> dialog box in the application (<i>Find mode</i>).
Delete	Enables you to delete data from user tables of master data type.
Cancel	Enables you to cancel a record.
Close	Enables you to close a record without creating a posting. Available in document type only.
Log	Creates a history log table in the database.

Service	User Action and Values
Manage Series	Enables document numbering. Available in document type only.
Year Transfer	Enables year transfer, which copies user tables to a new database.
Data Archive	Enables archiving of UDO records. Requires implementation DLL. Available in document type only.

**Note**

Make sure you have selected the *Find* mode to display the fields in the *Choose From List* style.



The screenshot shows a window titled "User-Defined Object Registration" with a sub-tab "Setting Services". Inside the window, there is a list of services with checkboxes:

- Add
- Update
- Find
- Delete
- Cancel
- Log
- Year Transfer

At the bottom of the window, there are four buttons: "Cancel", "< Back", "Next >", and "Finish".

5. In the *UI Settings* window, specify the fields to create a default form for the UDO.

You can choose the UDO form styles:

- *Header Line Style* - creates a form with a header area and a lines area (new style).
The *Header Line Style* enables you to present the main table fields in the top area of the form, and the child tables below (for multiple child tables, each child table is located on a separate tab).
- *Matrix Style* - creates a form with a matrix only (old style).
The *Matrix Style* can include only one child table.

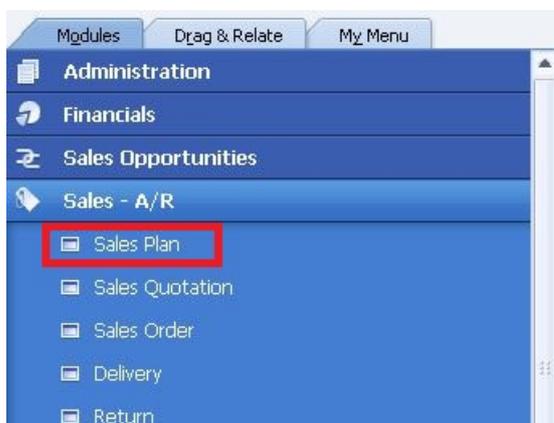
To modify the location of the form that appears in the SAP Business One Main Menu, proceed as follows:

- a. Select the *Menu Item* checkbox.
- b. Specify the caption of the menu.
- c. Click the browse button of the *Parent Menu ID* field, and specify the menu ID of the UDO menu's father menu.
- d. Specify the position of the UDO menu under its father menu.

- e. Specify the UID of the UDO menu.

To view the form, from the menu bar of the SAP Business One application, select *Tools* → *Default Forms*, and then select the name of your form.

If you specified the *Menu Item* as above, you can access the window from the SAP Business One *Main Menu*:

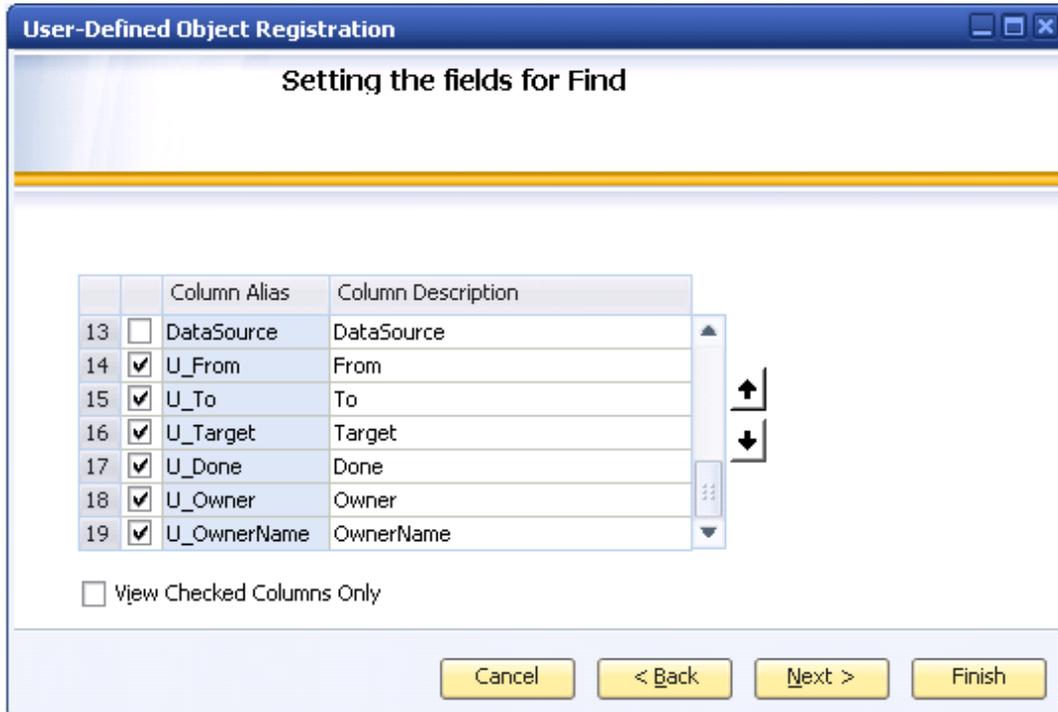


6. In the *Setting the Fields for Find* window, select the fields to display by default in the choose from list style and set the order of the fields.

This window appears only if the *Find* service is selected

To filter the list to view only your selected fields, select the *View Checked Columns Only* checkbox.

To rearrange the fields, select a field and then choose the up/down arrows.

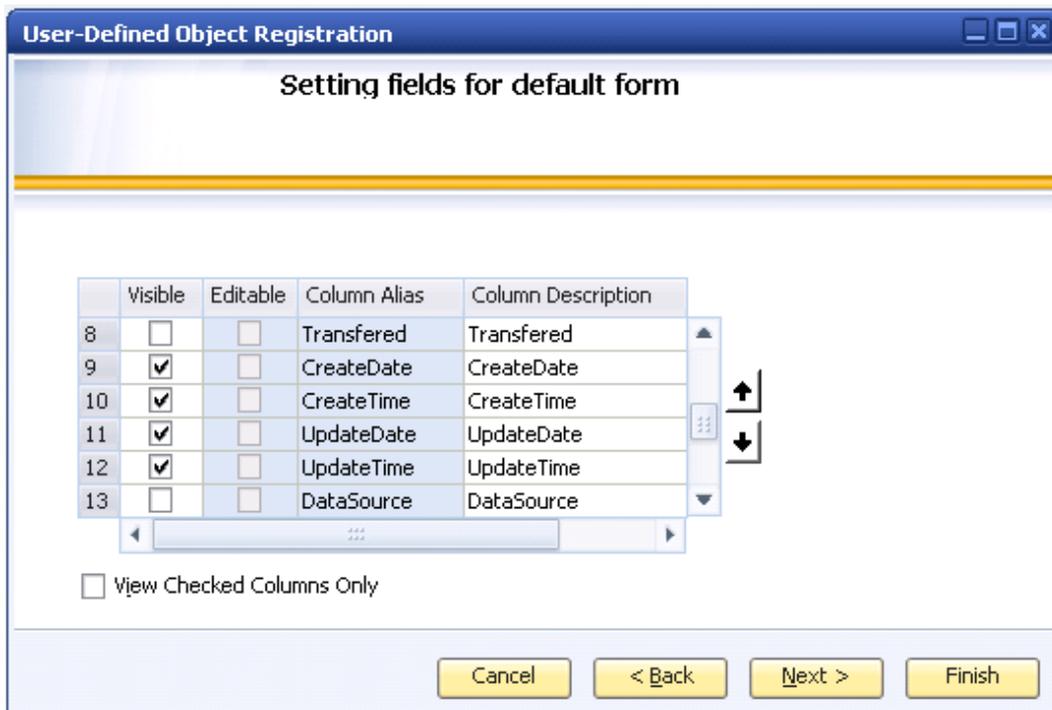


- In the *Setting Fields for Default Form* window, select the fields to display in the default form. This window appears only if the *Default Form* service is selected. To filter the list to view only your selected fields, select the *View checked fields only* checkbox. To rearrange the fields, select a field and then choose the up/down arrows.

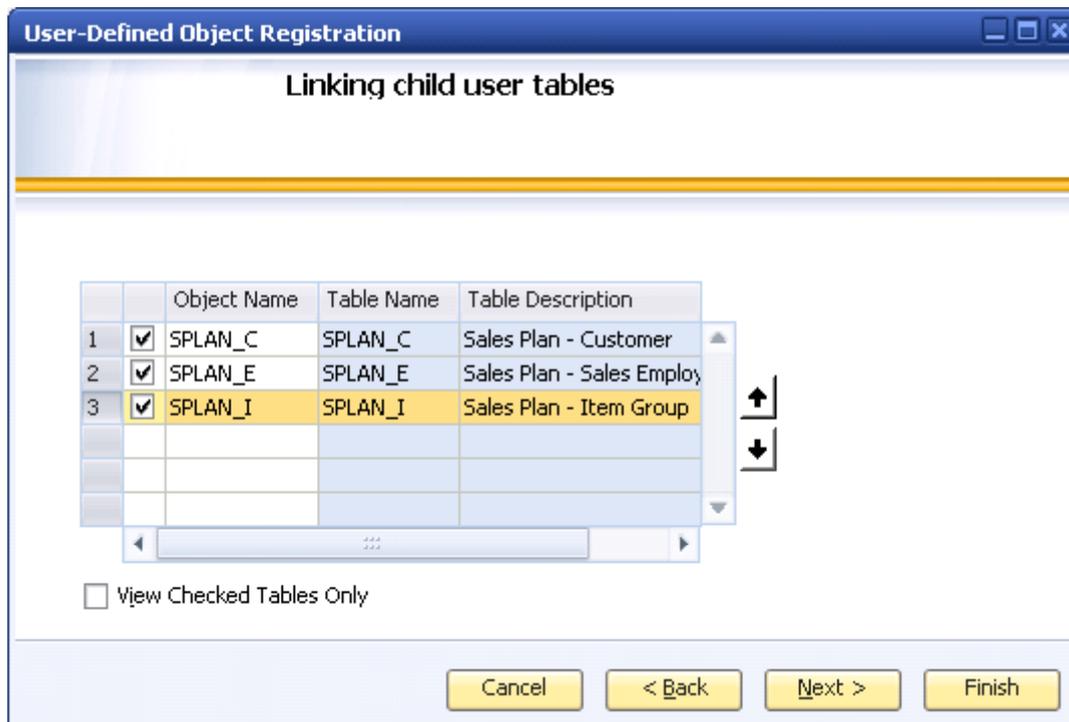
Note

The following fields are mandatory when choosing the fields to display in the default form:

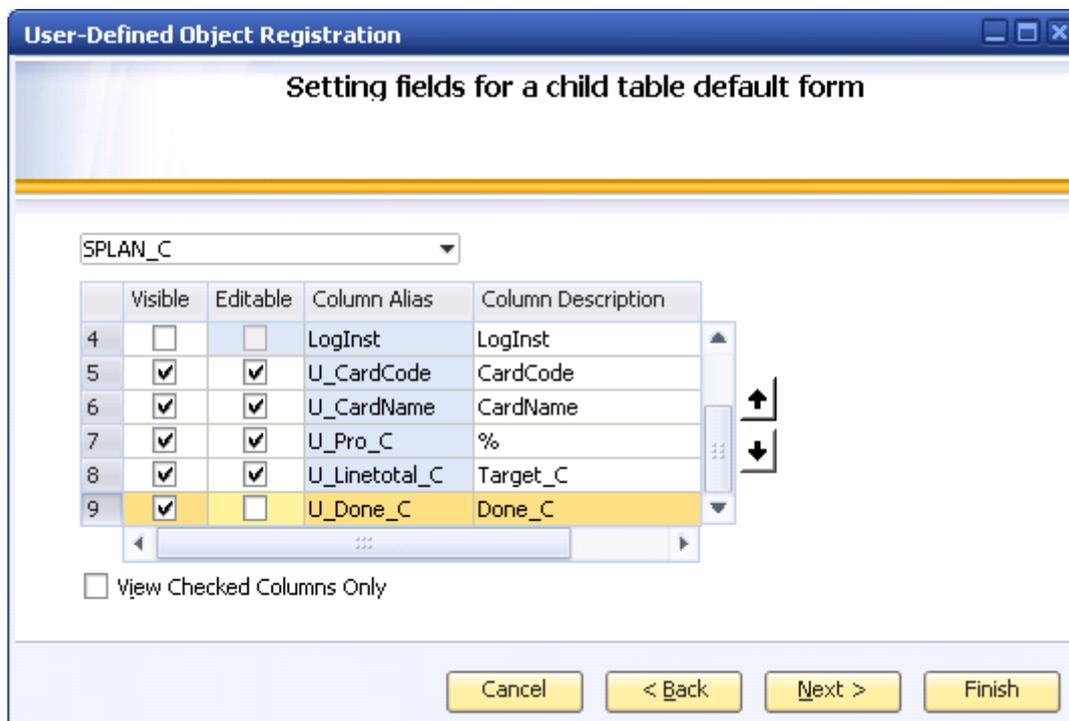
- For document type objects, you must select the *DocEntry* field of the child table.
- For master data type objects, you must select the key of the main table.



- In the *Linking Child User Tables* window, select the child (user) tables related to the main table, and define their order.



- In the *Setting Fields for a Child Table Default Form* window, set the fields of a child (user) table for the default child form
 This window appears only if the *Default Form* service is selected, and a child table was selected.



- Finish the steps in the user-defined objects registration wizard.

Result

You can access the new UDO from the main menu.

The style of the UDO window is very similar to the system window.

Code	<input type="text"/>	Name	<input type="text"/>
CreateDate	<input type="text"/>	CreateTime	<input type="text"/>
UpdateDate	<input type="text"/>	UpdateTime	<input type="text"/>
From	<input type="text"/>	To	<input type="text"/>
Target	0.00	Done	0.00
Owner	<input type="text"/>	OwnerName	<input type="text"/>

#	CardCode	CardName	%	LineTotal_C	Done_C
			0.00	0.00	0.00

Step 3: Creating User-Defined Values

To facilitate filling out documents and entering data into windows, you can set up user-defined values, that is, your own valid values for different fields. The user-defined values are also known as format search in SAP Business One.

For a specific field, you can use user-defined values to do the following:

- Display a list of values from which the user can choose.
The list of values can be static, or it can be derived from a query that is run each time the user edits the field.
- Automatically fill in a field whenever another field (the trigger field) is changed. For example, you can automatically fill in the correct Zip code based on the address that was entered.



Note

You cannot add user-defined values to a field that is not editable.

Example: Creating user-defined values for the *Done* field

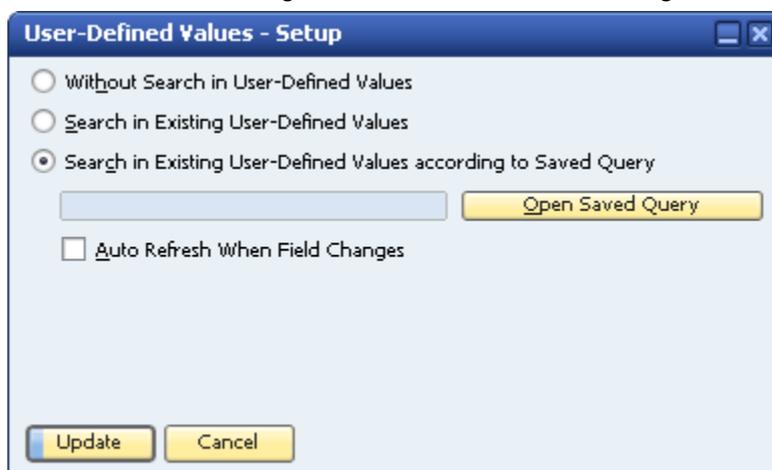
The *Done* field represents the completed sales amount. If the application takes deliveries as the criteria of sold successfully, and takes the delivery amount as the completed sales amount, then the user-defined value for the *Done* field is the total completed sales amount during the whole period of the sales plan.

Procedure

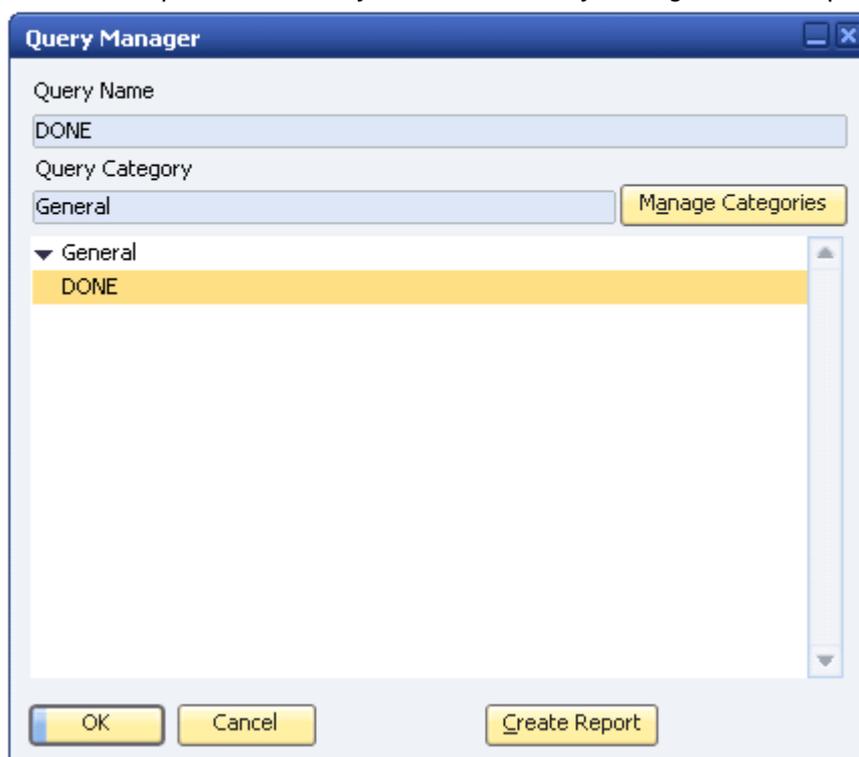
To create user-defined values, perform the following steps:

1. In the SAP Business One menu bar, choose *Tools* → *Queries* → *Query Generator*.
2. Write the following queries in SQL for the *Done* field, and save the queries in SAP Business One:

```
SELECT sum(T0.[DocTotalSy]-T0.[VatSumSy]) FROM ODLN T0 where
T0.DOCDATE >= $[@SPLAN.U_From.Date]
AND T0.DOCDATE <= $[@SPLAN.U_To.Date]
```
3. Place the cursor in the *Done* field of the *Sales Plan* window, and press **Alt+Shift+F2**.
Alternatively, you can place the cursor in the *Done* field, and in the menu bar, choose *Tools* → *Customization Tools* → *User-Defined Values - Setup*.
The *User-Defined Values - Setup* window appears.
4. Select *Search in Existing User-Defined Values according to Saved Query*.



5. Choose the *Open Saved Query* button. The *Query Manager* window opens.



6. Select the query from which to derive the list of values for this field, and choose the *OK* button. The query name is entered in the field in the *User-Defined Values – Setup* window.

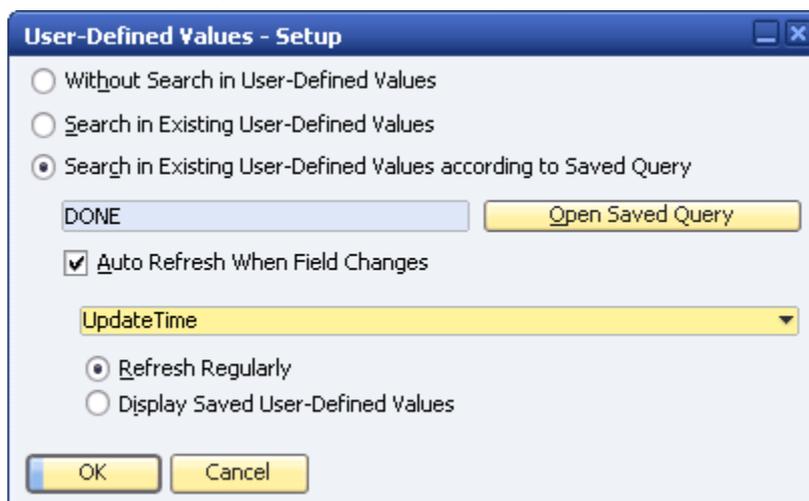


Note

To select a different query, choose the *Open Saved Query* button again.

7. Set whether users will select a value from the list generated by a query, or whether the value returned by the query will be entered into the field automatically when another field's value changes.

Selecting the *Auto Refresh When Field Changes* checkbox causes the value of the field to be set automatically with the value returned by the query. The user does not need to place the cursor in the field, press `Shift+F2` and select a value.



For more information about the queries, see [Other Reference Material: Queries](#).

For more information about the user-defined values, see the online help, as well as the document *How to Define and Use User-Defined Values*, which you can download from the documentation area of SAP Business One Customer Portal at <http://service.sap.com/smb/sbocustomer/documentation>.

Step 4: Adding Choose from Lists and Link Buttons

To add choose from lists and link buttons for UDOs, you can use the Screen Painter add-on.

Prerequisite

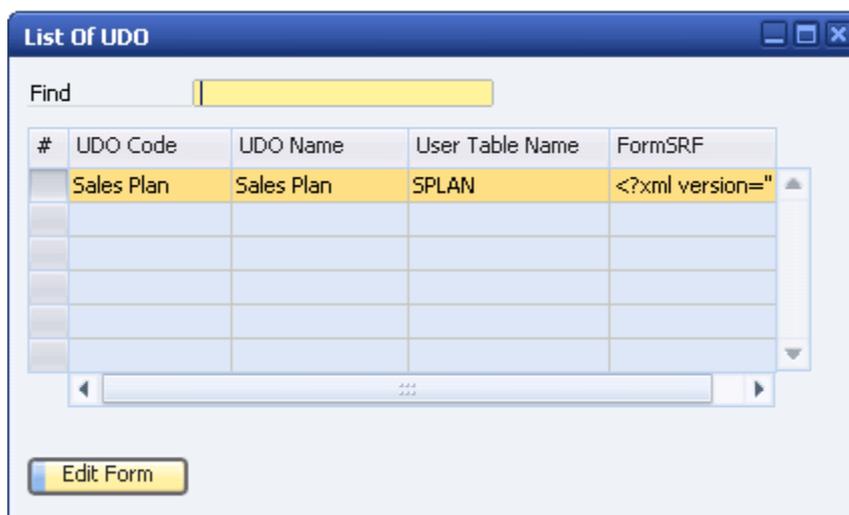
You have installed and registered the Screen Painter add-on.

To install the Screen Painter add-on, see the *Add-On Installation* section of *SAP Business One Administrator's Guide*, which you can download from the documentation area of SAP Business One Customer Portal at <http://service.sap.com/smb/sbocustomer/documentation>

Procedures

To add choose from lists and link buttons, perform the following steps:

1. From the menu bar, choose *Tools* → *Screen Painter*.
2. In Screen Painter, choose the  (*Open User-Defined Object List*) icon. The *List of UDO* window appears.



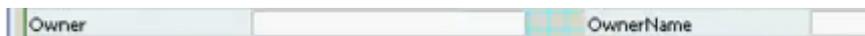
3. Select the *Sales Plan* UDO and choose the *Edit Form* button. The *Sales Plan* window appears in design mode.
4. Adjust the location and the size of UDO fields according to your requirements, and add choose from lists or link buttons. In the *Sales Plan* window, you can add choose from lists and link buttons for the following fields and columns:
 - The *Owner* field in the general area
 - The *CardCode* column in pane 1
 - The *EmployeeID* column in pane 2
 - The *GroupCode* column in pane 3

The following examples describe how to add choose from lists and link buttons in the general area and pane area.

Example 1: Adding a Choose from List and Link Button for the *Owner* Field in the General Area

For the *Owner* field, to add a choose from list to open the *List of Employees* window and a link button to open the *Employee Master Data* window, proceed as follows:

- a. In the *Sales Plan* window, select the *Owner* text field.

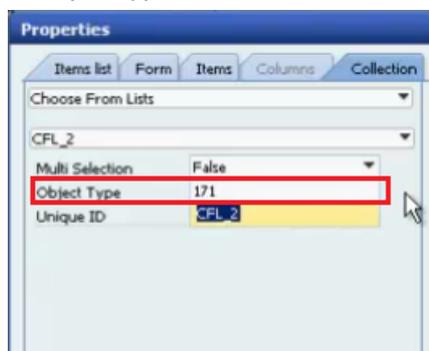


Note

To combine the *Owner* text field and the *OwnerName* field, change the size of the two text fields, move the *OwnerName* text field, and hide the *OwnerName* label field.

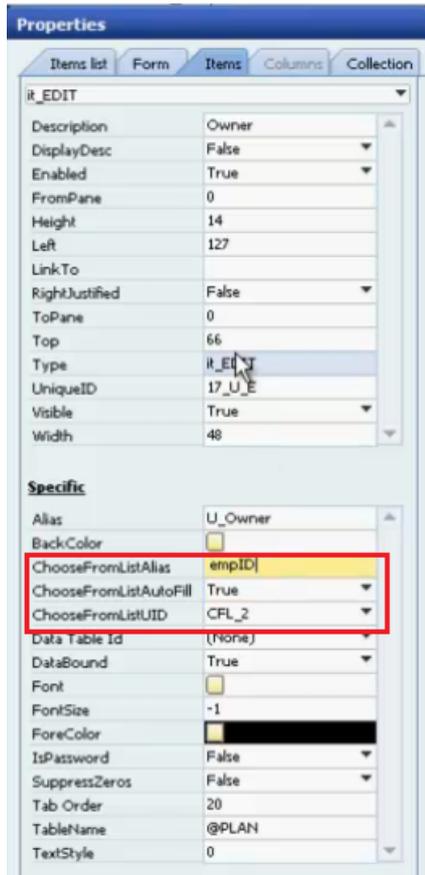


- b. To add a *Choose From Lists* collection for the *Owner* text field, choose the *New* button on the *Collection* tab of the *Properties* window. In the *Object Type* field, enter 171, which represents employee information. For more information about object types, see *BoObjectTypes Enumeration* in SDK Help Center.



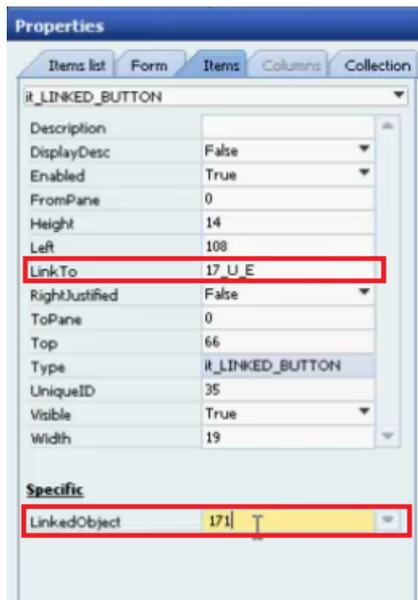
- c. To connect the choose from list with the *Owner* text field, copy the unique ID on the *Collection* tab, select the *Items* tab, and paste the unique ID in the *ChooseFromListUID* field.

Specify the *ChooseFromListAlias* field and the *ChooseFromListAutoFill* field according to your requirements.



Properties	
Items list Form Items Columns Collection	
it_EDIT	
Description	Owner
DisplayDesc	False
Enabled	True
FromPane	0
Height	14
Left	127
LinkTo	
RightJustified	False
ToPane	0
Top	66
Type	it_EDIT
UniqueID	17_U_E
Visible	True
Width	48
Specific	
Alias	U_Owner
BackColor	
ChooseFromListAlias	empID
ChooseFromListAutoFill	True
ChooseFromListUID	CFL_2
Data Table Id	(None)
DataBound	True
Font	
FontSize	-1
ForeColor	
IsPassword	False
SuppressZeros	False
Tab Order	20
TableName	@PLAN
TextStyle	0

- d. To add a link button for the *Owner* text field, in the toolbar, click  (*Link Button*) and drag the link button to the *Owner* text field. In the *LinkedObject* field of the *Items* tab, enter 171.
- e. To connect the link button with the *Owner* text field, select the *Owner* text field and copy the unique ID on the *Items* tab. Select the link button and paste the unique ID in the *LinkTo* field on the *Items* tab.



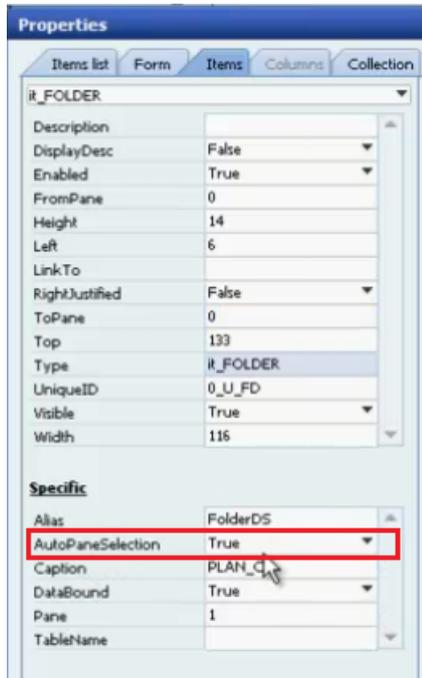
Properties	
Items list Form Items Columns Collection	
it_LINKED_BUTTON	
Description	
DisplayDesc	False
Enabled	True
FromPane	0
Height	14
Left	108
LinkTo	17_U_E
RightJustified	False
ToPane	0
Top	66
Type	it_LINKED_BUTTON
UniqueID	35
Visible	True
Width	19
Specific	
LinkedObject	171

- f. To save your changes, click  (*Save Form to Database*).

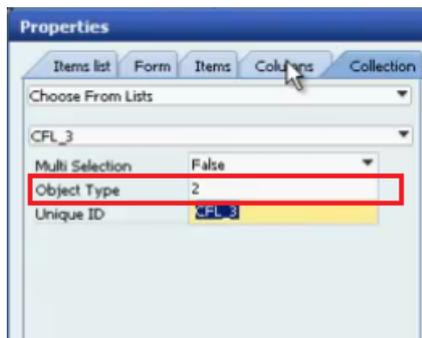
Example2: Adding a Choose from List and Link Button in a Column of the Pane Area

To specify the *CardCode* column in the matrix as link button type to open the *List of Business Partners* window and the *Business Partner Master Data* window, proceed as follows:

- a. In the *Sales Plan* window, select the *PLAN_C* pane.
- b. On the *Items* tab of the *Properties* window, make sure that the *AutoPaneSelection* field is set to **True**.

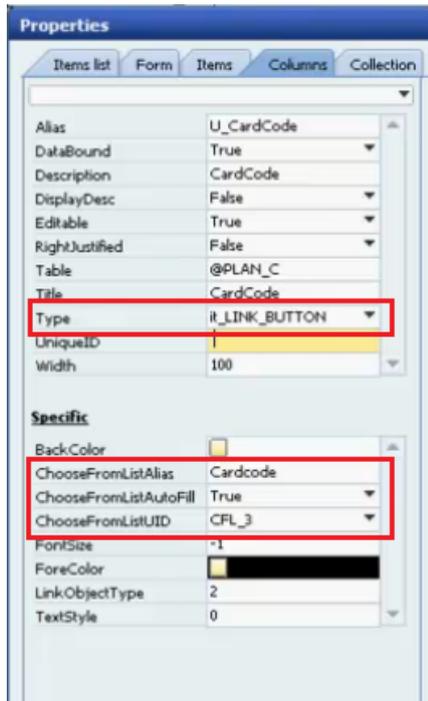


- c. In the menu bar, choose *Form Design* → *Pane Level* → *1*.
- d. In the *PLAN_C* pane, select the *CardCode* column of the matrix.
- e. To add a *Choose From Lists* collection for the column, choose the *New* button on the *Collection* tab of the *Properties* window. In the *Object Type* field, enter **2**, which represents business partners. For more information about object types, see *BoObjectTypes Enumeration* in SDK Help Center.



- f. To connect the choose from list with the *CardCode* column, copy the unique ID on the *Collection* tab, select the *Columns* tab, and paste the unique ID in the *ChooseFromListUID* field.
Specify the *ChooseFromListAlias* field and the *ChooseFromListAutoFill* field according to your requirements.

- g. To add a link button for the *CardCode* column, in the *Columns* tab, specify the *Type* field as *it_LINK_BUTTON* and in the *LinkedObject* field enter 2.



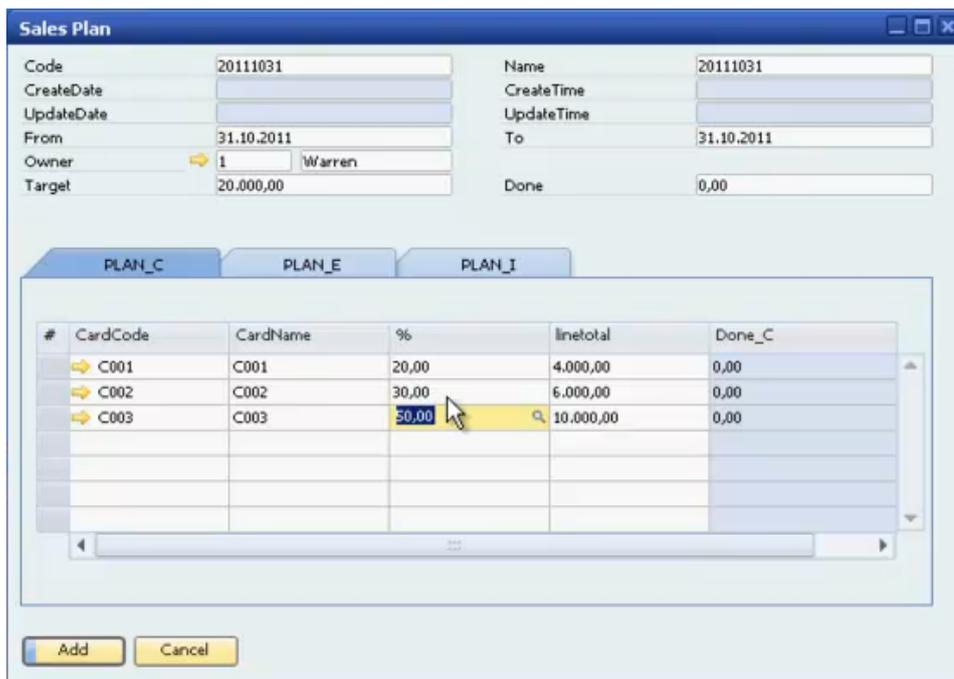
- h. To save your changes, click (Save Form to Database).

Result

In the main menu, you can access the updated UDO window and use the choose from lists and link buttons that are added in Screen Painter.

To use the sales plan, proceed as follows:

1. Add a new sales plan.



2. Add new delivery documents, and specify the *Customer*, *Item* and *Sales Employee* fields.

Delivery

Customer: C001
 Name: C001
 Contact Person: [dropdown]
 Customer Ref. No.: [input]
 BP Currency: EUR

No.: Primär 5
 Status: Open
 Posting Date: 31.10.2011
 Delivery Date: 31.10.2011
 Document Date: 31.10.2011

Contents | Logistics | Accounting | Attachments

Item/Service Type: Item | Summary Type: No Summary

#	Item No.	Quantity	Unit Price	Disc...	Tax Code	Total (LC)
1	I001	1	200,00 EUR	0,0000	A2	200,00 EUR
2	I002	1	300,00 EUR	0,0000	A2	300,00 EUR
3	I003	1	500,00 EUR	0,0000	A2	500,00 EUR
4				0,0000	A2	

Sales Employee: James
 Owner: [input]

Payment Order Run

Remarks: [text area]

Total Before Discount: 1.000,00 EUR
 Discount: %
 Freight: [input]
 Rounding: 0,00 EUR
 Tax: 190,00 EUR
 Total: 1.190,00 EUR

Buttons: Add, Cancel, Copy From, Copy To

3. In the *Sales Plan* window, you can view the completion status.

Sales Plan

Code: 20111031 | Name: 20111031
 CreateDate: 31.10.2011 | CreateTime: 550
 UpdateDate: 31.10.2011 | UpdateTime: 551
 From: 31.10.2011 | To: 31.10.2011
 Owner: 1 Warren
 Target: 20.000,00 | Done: 1.000,00

PLAN_C | PLAN_E | PLAN_I

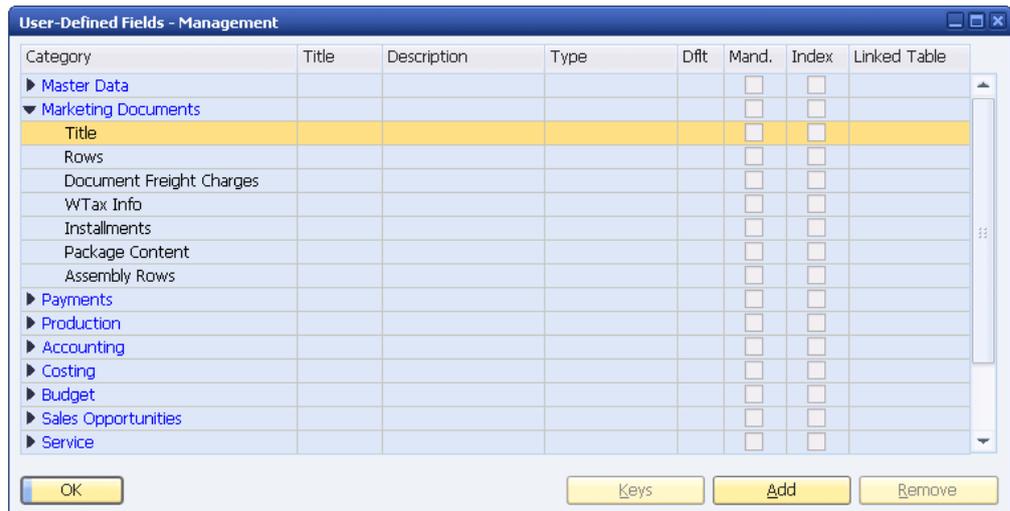
#	CardCode	CardName	%	linetotal	Done_C
	C001	C001	20,00	4.000,00	1.000,00
	C002	C002	30,00	6.000,00	0,00
	C003	C003	50,00	10.000,00	0,00

Buttons: Update, Cancel

**Tips**

You can add a user-defined field in the *Delivery* window and link it to the *Sales Plan* UDO. The UDF has the choose from list and link button functions to open the *Sales Plan* UDO and review your data. Proceed as follows:

- i. In the menu bar, choose *Tools* → *Customization Tools* → *User-Defined Fields – Management*.
- ii. In the *User-Defined Fields - Management* window, select the *Marketing Documents* category, and choose the *Add* button.



The *Field Data* window appears.

- iii. In the *Field Data* window, specify the name and the type of the field, select the *Link to UDO* checkbox and link the *Sales Plan* UDO.



- iv. Choose the *Add* button.
The user-defined field *Sales Plan* is added.
- v. To view the UDF, open the *Delivery* window and in the menu bar, choose *View* → *User-Defined Fields*.

You can use the choose from list and link button for the *Sales Plan* UDO.

The screenshot shows the SAP 'Delivery' document interface. The 'General' tab is active, and the 'Sales Plan' field is highlighted with a value of '20111031'. The interface includes a header section with fields for Customer, Name, Contact Person, Customer Ref. No., Local Currency, No., Primär, Status, Posting Date, Delivery Date, and Document Date. Below this is a table with columns for Item/Service Type, Item, Quantity, Unit Price, Disc..., Tax Code, and Total (LC). The table contains one row with item number '1'. At the bottom, there are fields for Sales Employee, Owner, Total Before Discount, Discount, Freight, Rounding, Tax, and Total. The 'Add', 'Cancel', 'Copy From', and 'Copy To' buttons are visible at the bottom of the form.

Other Reference Material: Queries

The queries related to the fields in the *Sales Plan* window are listed for your reference:

- **Done**

```
SELECT sum(T0.[DocTotalSy]-T0.[VatSumSy]) FROM ODLN T0 where
T0.DOCDATE >= $[@SPLAN.U_From.Date]
AND T0.DOCDATE <= $[@SPLAN.U_To.Date]
```
- **OwnerName**

```
SELECT FirstNAME FROM OHEM T0 where
T0.EMPID = $[@SPLAN.U_owner.NUMBER]
```
- **CardName**

```
SELECT CardName from OCRD where CardCode=$[@SPLAN_C.U_CardCode]
```
- **Pro_C**

```
SELECT $[@SPLAN_C.U_linetotal_C.number]*100/$[@SPLAN.U_target.number]
```
- **Linetotal_C**

```
SELECT $[@SPLAN.U_Target.number]*$[@SPLAN_C.U_C_Pro.number]/100
```
- **Done_C**

```
SELECT sum(T0.[DocTotalSy]-T0.[VatSumSy]) FROM ODLN T0 where
t0.cardcode=$[@SPLAN_C.U_CardCode]
AND T0.DOCDATE >= $[@SPLAN.U_From.Date]
AND T0.DOCDATE <= $[@SPLAN.U_To.Date]
```
- **Groupname**

```
SELECT ITMSGRPNAM from OITB WHERE ITMSGRPCOD=$[@SPLAN_I.U_GROUPCode]
```
- **Pro_I**

```
SELECT $[@SPLAN_I.U_linetotal_I.number]*100/$[@SPLAN.U_target.number]
```
- **Linetotal_I**

```
SELECT $[@SPLAN.U_Target.number]*$[@SPLAN_I.U_pro_I.number]/100
```
- **Done_I**

```
SELECT sum(T0.[LINETOTAL]) FROM DLN1 T0
INNER JOIN OITM T1
ON T1.ITEMCODE=T0.ITEMCODE
INNER JOIN OITB T2
ON T1.ITMSGRPCOD=T2.ITMSGRPCOD
where
t2.ITMSGRPCOD=$[@SPLAN_I.U_GROUPCODE.NUMBER]
AND T0.DOCDATE >= $[@SPLAN.U_From.Date]
AND T0.DOCDATE <= $[@SPLAN.U_To.Date]
group by T1.ITMSGRPCOD
```
- **Name**

```
SELECT slpname from oslp where slpcode=$[@SPLAN_E.U_empID]
```
- **Pro_E**

```
SELECT $[@SPLAN_E.U_linetotal_E.number]*100/$[@SPLAN.U_target.number]
```
- **Linetotal_E**

```
SELECT $[@SPLAN.U_Target.number]*$[@SPLAN_E.U_pro_E.number]/100
```

- **Done_E**

```
SELECT sum(T0.[DocTotalSy]-T0.[VatSumSy]) FROM ODLN T0 where  
t0.SLPCODE=$[@SPLAN_E.U_EMPID.NUMBER]  
AND T0.DOCDATE >= $[@SPLAN.U_From.Date]  
AND T0.DOCDATE <= $[@SPLAN.U_To.Date]  
group by T0.SLPCODE
```

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