

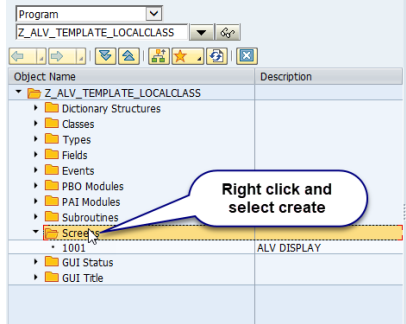
Create ALV template program

Wednesday, April 3, 2019 1:53 PM

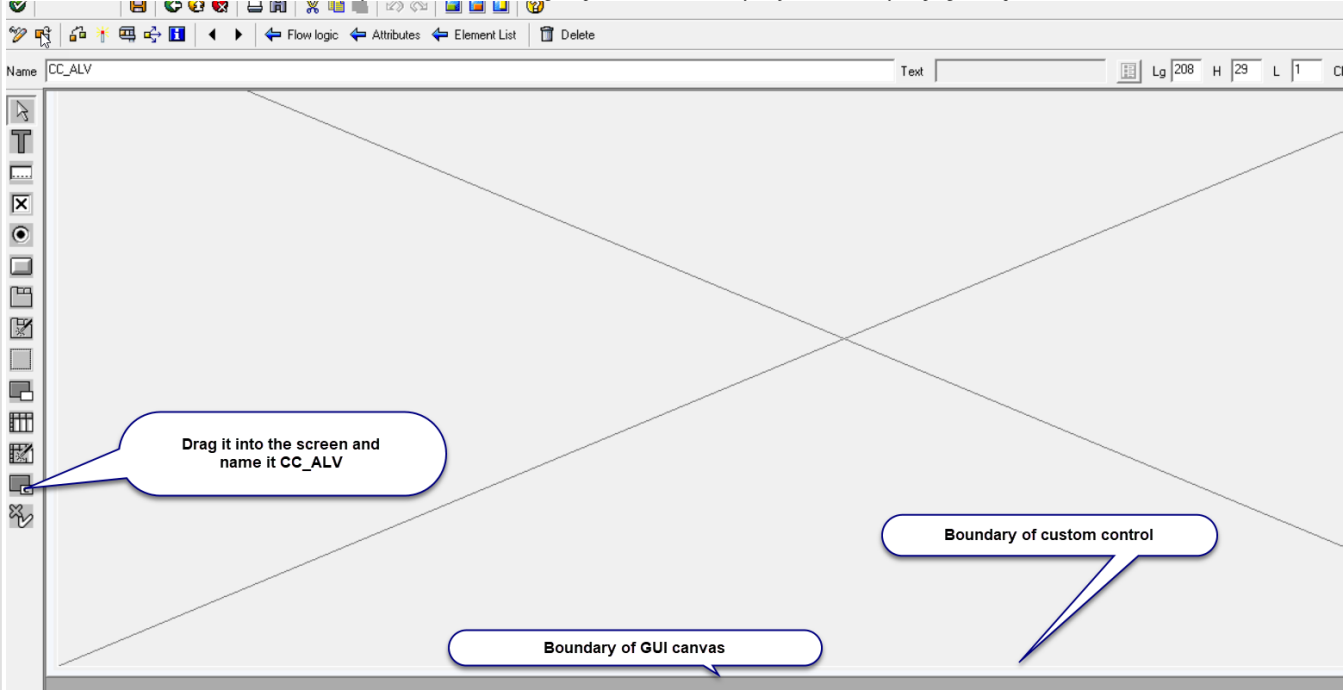
- 1. Create template alv program via se38, name it Z_ALV_TEMPLATE and copy source code from the Z_ALV_TEMPALTE_LOCALCLASS.txt file. You may save it as a local object without transport. This is your starting point for future ALV report.


Z_ALV_TEM
PLATE_LO...

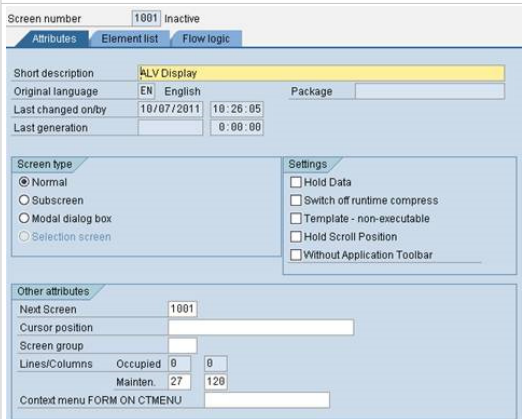
- 2. ALV Screen. Switch to SE80, Click (ctrl+shift+F5) "display object list" icon.



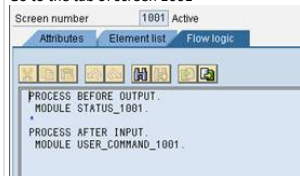
After screen is created, click menu icon Layout to display the Screen Painter.
Drag the Custom Control icon and put it into the screen. Call it CC_ALV. This name will be used in the program. Activate it.
Make sure the custom control is within the boundary of GUI canvas and as large as possible. You can always adjust it based on your program requirement.



Save and Activated the screen.
Check the attributes of this screen, where you can disable the application toolbar to avoid the empty block if you are not planning to add any menu item there.

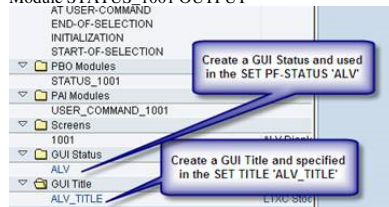


Go to the tab of screen 1001



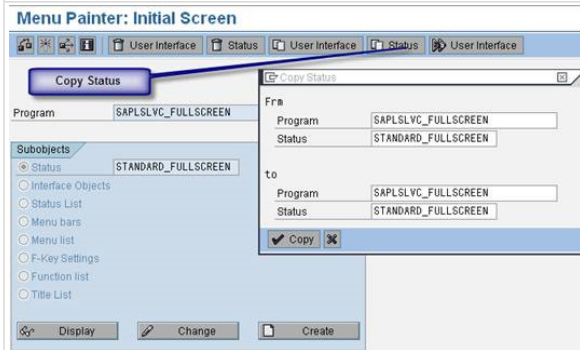
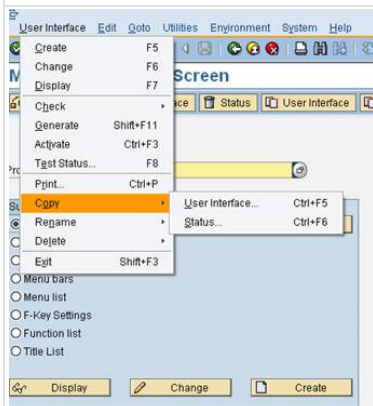
3. GUI Status and GUI Title

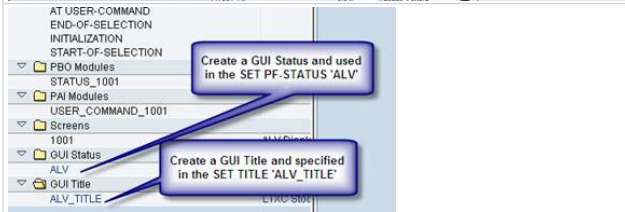
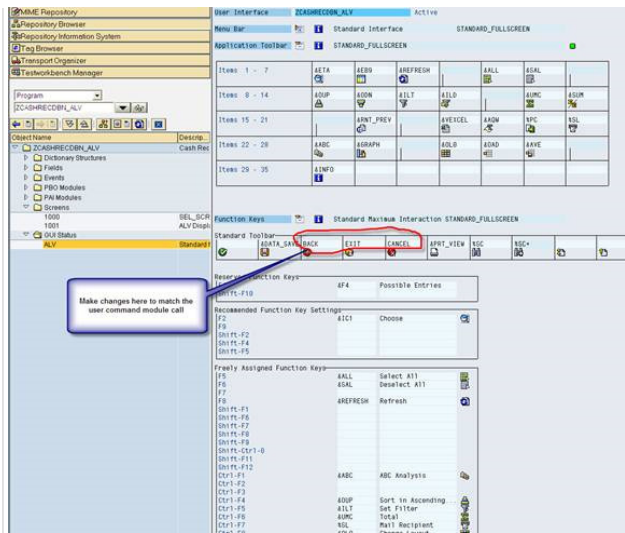
When you create GUI Status and GUI Title, make sure the name match the code under Module STATUS_1001 OUTPUT



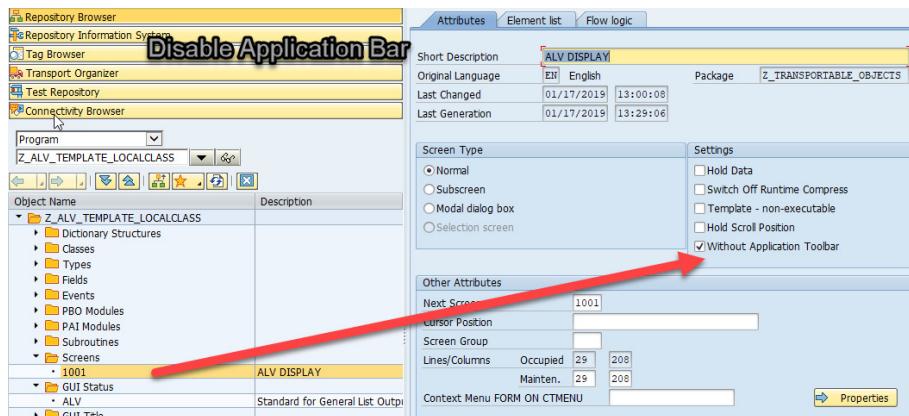
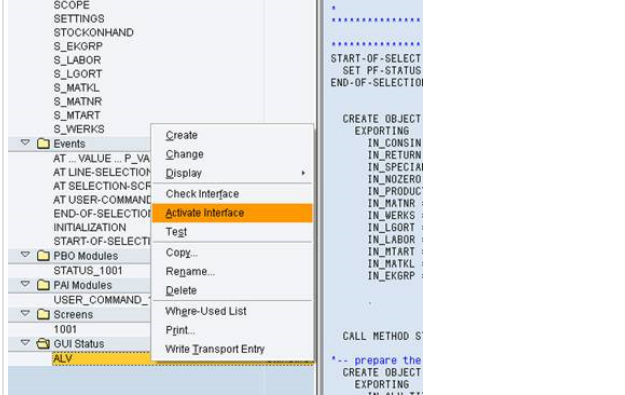
```
MODULE STATUS_1001 OUTPUT.
  SET PF-STATUS 'ALV'. "Defined in the GUI Status folder
  SET TITLEBAR 'ALV_TITLE'. "Defined in the GUI Title folder
  ****TODO: set your table
  * display it
  CALL METHOD DIST ALV DISPLAY->DISPLAY ALV
```

- Create the GUI Status. Right Click of GUI Status folder to select "create" menu to create GUI Status. The screen status will have menu bar, Application tool bar (You can hide it in the Attributes tab of the screen 1001) etc.
- Or use transaction se41 to copy (menu icon **Status**) the GUI STATUS. This will get you start with a standard one from one of the SAP example. I prefer this way.
From: SAPLSLVC_FULLSCREEN
STANDARD_FULLSCREEN
To:
REPORT NAME
ALV (this name is used in the program to load the GUI Status)
After the copy refresh the Object Tree to see GUI Status folder.
- Name the GUI Status ALV and activate it.
- Create GUI TITLE by right clicking GUI Title folder. Used in <SET TITLEBAR>





Make sure activate this GUI status and GUI Title by right click "Activate Interface"



4. PAI/PBO Modules – STATUS/USER_COMMAND Module

```

656 MODULE STATUS_1001 OUTPUT.
657   SET PF-STATUS 'ALV'. "Defined in the GUI Status folder
658   SET TITLEBAR 'ALV_TITLE'. "Defined in the GUI Title folder
659   ****TODO: set your table
660   * display it
661   CALL METHOD DIST_ALV_DISPLAY->DISPLAY_ALV
662     CHANGING
663       GT_FIELDCAT = GT_FIELDCAT
664       GS_LAYOUT = GS_LAYOUT
665       GS_TAB = ITAB_ALVTABLE[]
666       GS_VARIANT = P_VARI.
667   ENDMODULE. " STATUS 1001 OUTPUT
668
669 *----- Module USER_COMMAND_1001 INPUT -----*
670 *----- text -----*
671
672
673 MODULE USER_COMMAND_1001 INPUT.
674   CASE SY-UCOMM.
675     WHEN 'BACK' OR 'EXIT' OR 'RETURN' OR 'CANCEL' OR '&F03' OR '&F12' OR '&F15'.
676       LEAVE TO SCREEN '0'.
677       CALL METHOD DIST_ALV_DISPLAY->FREE.
678     WHEN 'DISPLAY'.
679       LEAVE TO SCREEN 1001.
680   ENDCASE.
681   ENDMODULE. " USER COMMAND 1001 INPUT

```

5. Create message class ZALV. Double click the ZALV to create one if not existing.

```

1  * & Report Z_ALV_TEMPLATE
2  * &
3  * &
4  * & Use ALV Grid Control - CL_GUI_ALV_GRID
5  * & MVC Design Pattern
6  * & Model - ZCL_ALV_DATA
7  * & Controller -
8  * &
9  * &
10 * &
11 * &
12 * &
13 * &
14
15 REPORT Z_ALV_TEMPLATE
16 MESSAGE-ID ZALV
17 NO STANDARD PAGE HEADING
18 LINE-SIZE 276
19 LINE-COUNT 65.
20

```

No.	Message Short Text	Self-Explanatory	Last Changed By	Changed On
000		<input checked="" type="checkbox"/>	JLU	01/14/2019
001		<input checked="" type="checkbox"/>	JLU	01/14/2019
002		<input checked="" type="checkbox"/>	JLU	01/14/2019
003	Internal table s is empty. No data to display.	<input checked="" type="checkbox"/>	JLU	01/14/2019

6. Message ID at the report level.

```

REPORT Z_ALV_TEMPLATE
MESSAGE-ID ZALV
NO STANDARD PAGE HEADING
LINE-SIZE 276
LINE-COUNT 65.

```

Double click ZALV to create a message class ZALV for ALV programs. You may use your own but make sure you have the similar Message element in your message class. It will be used in the template to display the message.

For example,
message i000 with [my message].

No.	Message Short Text	Self-Explanatory	Last Changed By	Changed On
000		<input checked="" type="checkbox"/>	JLU	01/14/2019
001		<input checked="" type="checkbox"/>	JLU	01/14/2019
002		<input checked="" type="checkbox"/>	JLU	01/14/2019
003	Internal table s is empty. No data to display.	<input checked="" type="checkbox"/>	JLU	01/14/2019

7. Activate the program and run the sample alv. See the link below to generate demo data for sflight if you haven't done it before. Now you have the template ALV code ready.
<https://wiki.scn.sap.com/wiki/display/ABAP/Flight+Data+Application+-+Demo+Example+for+Integration+Technologies>

ALV_TEMPLATE_LOCALCLASS

Flight Info

Carrier ID to

Connection ID to

Flight Date to

Customer Filter

Currency

☐ Is smoker?

Customer Type

Customer Type P ☒

Customer Type B ☐

Output Options

☒ ALV Display

☐ Download

File Path

File Name

ALV Layout

ALV template title(ALV_TITLE)

Report Name Here

Carrier ID	Connection ID	Flight Date	Customer ID	Customer Type	Smoker	Currency	Amount
AA	17	07/26/2018	1951	P		USD	359.50
AA	17	07/26/2018	1190	P		EUR	461.00
AA	17	07/26/2018	2642	P		USD	359.50
AA	17	07/26/2018	4416	P		GBP	243.99
AA	17	07/24/2018	3918	P		EUR	391.86
AA	17	07/26/2018	656	P		EUR	461.00
AA	17	07/26/2018	3292	P		USD	359.50
AA	17	07/26/2018	665	P		USD	401.79
AA	17	07/26/2018	4478	P		EUR	437.95
AA	17	07/26/2018	772	P		EUR	461.00
AA	17	07/26/2018	2371	P		GBP	271.88
AA	17	07/26/2018	4096	P		USD	422.94
AA	17	07/24/2018	379	P		USD	422.94
AA	17	07/26/2018	1338	P		USD	359.50
AA	17	07/26/2018	617	P		EUR	437.95
AA	17	07/26/2018	4616	P		USD	380.65
AA	17	07/26/2018	411	P		EUR	666.51