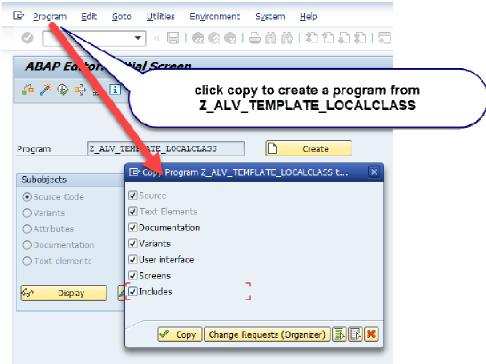
Create an ALV Report in No Time

Wednesday, April 3, 2019 2:56 PM

• Create an ALV report by copying from Z_ALV_TEMPLATE_LOCALCLASS



• MVC design pattern. Search

"initialize the alv container and pareparing the data " to see how the objects are initialized.

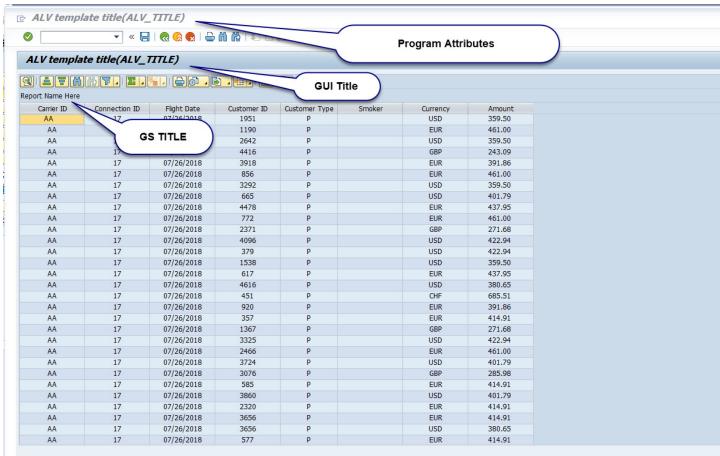
There are two custom abap classes involved, <code>ZCL_DATA</code> (<code>REF_DATA_OBJECT)</code> and <code>ZCL_ALV_SERVICE</code> (<code>DIST_ALV_DISPLAY)</code>. ZCL_DATA is the model and <code>ZCL_ALV_SERVICE</code> is the controller. The view is <code>DIST_ALV_DISPLAY</code>, which imports the custom control we created in the Screen 1001.

• Change Report Name.

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

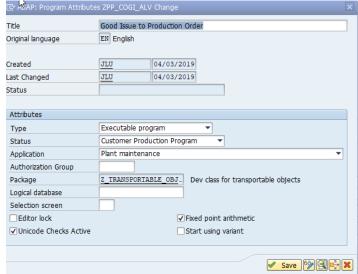
Please change the report name first if you copy it from template.

• Set all the display title below as you expected.

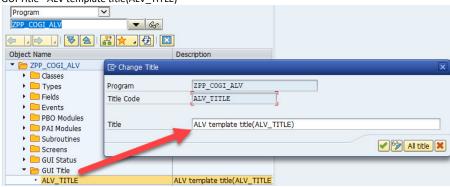


REPORT name

o Program Attribute



GUI Title - ALV template title(ALV_TITLE)



o GS TITLE - Report Name Here

```
******* End of ALV Model and Controller classes********
431
432
433
434
     DATA REF DATA OBJECT TYPE REF TO ZCL DATA.
435 = ********* ALV related *****
    L ****TODO: Type the report name here.
436
DATA: GS_TITLE(50) TYPE C VALUE 'Report Name Here'.
438
     *-- Layout Structure
439
     DATA GS LAYOUT TYPE LVC S LAYO.
440
     *-- ALV Service CLASS, display the ALV
441 DATA: DIST ALV DISPLAY TYPE REF TO ZCL ALV SERVICE.
442
      *-- Field Category
    DATA GT FIELDCAT TYPE LVC_T_FCAT.
443
444
     *-- File Name
445
     DATA: FNAME(128) TYPE C.
446
447
112
```

Search "TODO: Your own global types and data section". Prepare data type
and data definition, especially the internal table to display. Here it is
ITAB GIITEM, which will be used below to hook up with the GUI container

```
****TODO: Your own global types and data section

TYPES: BEGIN OF TY_GIITEM,

FLAG(1) TYPE C,

AUFNR LIKE RESB-AUFNR, " Production Order

MATNR LIKE RESB-MATNR, " Material

WERKS LIKE RESB-LGORT, " Plant

LGORT LIKE RESB-LGORT, " Storage Location

RSNUM LIKE RESB-BDMNG, " Requirement Quantity

BDMNG LIKE RESB-BDMNG, " Requirement Quantity

ENMNG LIKE RESB-ENMNG, " Withdrawn Quantity

RNMNG LIKE RESB-ENMNG. " Issue Quantity

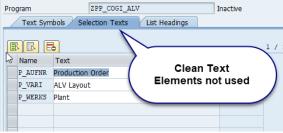
TYPES: END OF TY_GIITEM.

DATA: ITAB_GIITEM TYPE STANDARD TABLE OF TY_GIITEM,

WA_GIITEM TYPE TY_GIITEM.

CONSTANTS: C_CHECK(1) VALUE 'X'. " value used to set X for a field
```

• Finish the select screen and clean the Text elements



- Search "TODO: prepare the model data here. " and prepare the data to display.
- Search "TODO: Delete the code below ". This code is only for demo alv template.
- Search "TODO: Prepare ALV Field Category " and set field category for fields to display in ALV grid.

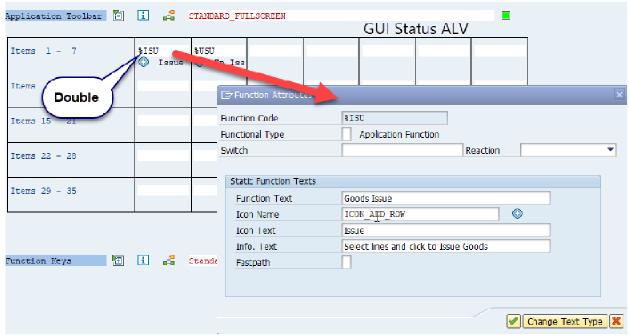
```
319
     ****TODO: Prepare ALV Field Category (column name, type etc)
320 E METHOD GET FIELDCAT.
          DATA WA PT FCAT TYPE LVC S FCAT.
321
322
          CLEAR WA PT FCAT.
323
          WA_PT_FCAT-FIELDNAME = 'CHECKBOX'.
324
          WA PT FCAT-CHECKBOX = 'X'.
325
          WA PT FCAT-EDIT = 'X'.
          WA_PT_FCAT-COLTEXT = 'Select'.
326
          WA PT FCAT-SELTEXT = 'Select A Row'.
327
328
          APPEND WA PT FCAT TO PT FIELDCAT.
329
          CLEAR WA PT FCAT.
331
          WA PT FCAT-FIELDNAME = 'MATNR'.
          WA PT FCAT-REF TABLE = 'ITAB GIITEMS'.
332
          WA_PT_FCAT-REF_FIELD = 'MATNR'.
333
334
          WA PT FCAT-OUTPUTLEN = '18'.
          WA PT FCAT-JUST = 'L'.
335
          WA_PT_FCAT-COLTEXT = 'Material'.
336
337
          WA PT FCAT-SELTEXT = 'Material'.
          APPEND WA_PT_FCAT TO PT_FIELDCAT.
338
```

ALV output or Download. Search "ALV output or Background job download."
 This template provide code sample for either ALV output or file download. Comment out DOWNLOAD_OUTPUT if no needed, both DOWNLOAD_OUTPUT, DOWNLOAD_HEADER and DOWNLOAD_DETAIL forms and the form call.

• Search "TODO: set your table ". Link your table to the view

• Add Buttons to the Application Tab.

Add Item into GUI Status ALV.



```
Add code to "MODULE USER_COMMAND_1001 INPUT."
MODULE USER_COMMAND_1001 INPUT.
  CASE SY-UCOMM.
    WHEN '%ISU'. " Issue Goods
     REFRESH: ITAB_SELECTEDGIITEM.
*** Get input
     CALL METHOD DIST ALV DISPLAY->CHECK CHANGED DATA.
      CALL METHOD REF_DATA_OBJECT->GETSELECTED
        EXPORTING
                        = ITAB_GIITEM
          TTEMS
        IMPORTING
          SELECTEDITEMS = ITAB_SELECTEDGIITEM.
      IF LINES( ITAB_SELECTEDGIITEM ) > 0.
        CALL METHOD DIST_ALV_DISPLAY->POST_GOODSISSUE
            ISISSUE
            SELECTEDITEMS = ITAB_SELECTEDGIITEM.
        CALL METHOD REF_DATA_OBJECT->GET_DATA.
      ENDIF.
    WHEN '%USU'. " Goods Withdraw
     REFRESH: ITAB_SELECTEDGIITEM.
*** Get Input
      CALL METHOD DIST_ALV_DISPLAY->CHECK_CHANGED_DATA.
      CALL METHOD REF_DATA_OBJECT->GETSELECTED
        EXPORTING
          ITEMS
                        = ITAB_GIITEM
        IMPORTING
         SELECTEDITEMS = ITAB SELECTEDGIITEM.
      IF LINES( ITAB_SELECTEDGIITEM ) > 0.
        CALL METHOD DIST_ALV_DISPLAY->POST_GOODSISSUE
         EXPORTING
            ISISSUE
            SELECTEDITEMS = ITAB_SELECTEDGIITEM.
        CALL METHOD REF_DATA_OBJECT->GET_DATA.
      ENDIF.
    WHEN 'BACK' OR 'EXIT' OR 'RETURN' OR 'CANCEL' OR '&F03' OR '&F12' OR
'&F15'.
     LEAVE TO SCREEN '0'.
     {\tt CALL\ METHOD\ DIST\_ALV\_DISPLAY->FREE.}
    WHEN 'DISPLAY'.
     LEAVE TO SCREEN 1001.
 ENDCASE.
ENDMODULE.
                           " USER_COMMAND_1001 INPUT
```

• Add action to controller, for example posting.

