

**Example: ALV Cell coloring, ALV Traffic light column, ALV Drop down column**

```
REPORT Z930ALV7.

include z930alv7_vardec.
INCLUDE z930alv7_moddef.
INCLUDE z930alv7_subdef.

start-of-SELECTION.
call screen 100.

Include Program: containing variable declarations
(z930alv6_vardec)

data v_vbeln type vbak-vbeln.
SELECT-OPTIONS so_vbeln for v_vbeln DEFAULT '4980' to '5030'.

data : vbak_cont type ref to cl_gui_custom_container,
      vbak_grid type ref to cl_gui_alv_grid.

data : t_fcat type lvc_t_fcat,
      wa_fcat type lvc_s_fcat.

data wa_layo type lvc_s_layo.

types : begin of ty_vbak.
        include type zcvbak.
types : netwr type vbak-netwr,
        end of ty_vbak.

data : t_vbak type table of ty_vbak,
      wa_vbak type ty_vbak.

types : begin of ty_final_vbak.
        include type zcvbak.
types : netwr type vbak-netwr,
      cellcolor type lvc_t_scol,
      lights type c,
      ordertype type string,
      end of ty_final_vbak.

data : t_final_vbak type table of ty_final_vbak,
      wa_final_vbak type ty_final_vbak.

data wa_cellcolor type lvc_s_scol.
```

Include Program: containing module definitions(Z930ALV7\_MODDEF)

```
MODULE STATUS_0100 OUTPUT.
if vbak_cont is not bound.
  SET PF-STATUS 'STATUS100'.
  * link container with custom control
CREATE OBJECT VBAK_CONT
  EXPORTING
    CONTAINER_NAME          = 'CUSTCTRL'.
  * link alv grid with custom container
CREATE OBJECT VBAK_GRID
  EXPORTING
    I_PARENT                = vbak_cont.
  * get sales orders
  perform getvbak.
  if t_vbak is not INITIAL.
  * generate field catalog for sales orders grid
    perform fldcatvbak.
  * generate layout
    perform layoutvbak.
  * prepare dropdown column values
    perform dropdown_ordertype.
  * display sales orders
    perform displayvbak.
  endif.
endif.
ENDMODULE.                                " STATUS_0100  OUTPUT

MODULE USER_COMMAND_0100 INPUT.
  case sy-ucomm.
    when 'BACK'.
      leave program.
  endcase.
ENDMODULE.                                " USER_COMMAND_0100  INPUT
```

Include Program: containing subroutine definitions  
(Z930ALV7\_MODDEF)

```
FORM GETVBAK .
  select vbeln erdat erzet ernam netwr
    from vbak
    into table t_vbak
    where vbeln in so_vbeln.
  if sy-subrc eq 0.
    clear wa_vbak.
    loop at t_vbak into wa_vbak.
      clear wa_final_vbak.
```

```

clear wa_cellcolor.
MOVE-CORRESPONDING wa_vbak to wa_final_vbak.
if wa_vbak-netwr < 10000.
    wa_final_vbak-lights = '1'. "red
    wa_cellcolor-fname = 'VBELN'.
    wa_cellcolor-color-col = 5.
    wa_cellcolor-color-int = 1.
    wa_cellcolor-color-inv = 0.
    append wa_cellcolor to wa_final_vbak-cellcolor.
elseif wa_vbak-netwr >= 10000 and wa_vbak-netwr < 40000.
    wa_final_vbak-lights = '2'. "orange
    wa_cellcolor-fname = 'VBELN'.
    wa_cellcolor-color-col = 7.
    wa_cellcolor-color-int = 1.
    wa_cellcolor-color-inv = 0.
    append wa_cellcolor to wa_final_vbak-cellcolor.
else.
    wa_final_vbak-lights = '3'. "green
    wa_cellcolor-fname = 'VBELN'.
    wa_cellcolor-color-col = 3.
    wa_cellcolor-color-int = 1.
    wa_cellcolor-color-inv = 0.
    append wa_cellcolor to wa_final_vbak-cellcolor.
endif.
append wa_final_vbak to t_final_vbak.
clear wa_vbak.
endloop.
endif.
ENDFORM.                    " GETVBAK

FORM FLDCATVBAK .
    refresh t_fcat.
    clear wa_fcat.
    wa_fcat-fieldname = 'VBELN'.
    wa_fcat-col_pos = 1.
    wa_fcat-coltext = 'Sales Doc'.
    wa_fcat-outputlen = 12.
    append wa_fcat to t_fcat.

    clear wa_fcat.
    wa_fcat-fieldname = 'ERDAT'.
    wa_fcat-col_pos = 2.
    wa_fcat-coltext = 'Creation Date'.
    wa_fcat-outputlen = 12.
    append wa_fcat to t_fcat.

    clear wa_fcat.

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wa_fcat-fieldname = 'ERDAT'.
wa_fcat-col_pos = 3.
wa_fcat-coltext = 'Creation Time'.
wa_fcat-outputlen = 12.
append wa_fcat to t_fcat.

clear wa_fcat.
wa_fcat-fieldname = 'ERNAM'.
wa_fcat-col_pos = 4.
wa_fcat-coltext = 'Created By'.
wa_fcat-outputlen = 12.
append wa_fcat to t_fcat.

clear wa_fcat.
wa_fcat-fieldname = 'NETWR'.
wa_fcat-col_pos = 5.
wa_fcat-coltext = 'Net Value'.
wa_fcat-outputlen = 12.
append wa_fcat to t_fcat.

clear wa_fcat.
wa_fcat-fieldname = 'LIGHTS'.
wa_fcat-col_pos = 6.
wa_fcat-coltext = 'Status'.
wa_fcat-outputlen = 8.
append wa_fcat to t_fcat.

clear wa_fcat.
wa_fcat-fieldname = 'ORDERTYPE'.
wa_fcat-col_pos = 7.
wa_fcat-coltext = 'Order Type'.
wa_fcat-outputlen = 12.
wa_fcat-drdn_hndl = 50.
wa_fcat-edit = 'X'.
append wa_fcat to t_fcat.
ENDFORM.                                " FLDCATVBAK

FORM LAYOUTVBAK .
clear wa_layo.
wa_layo-grid_title = 'Sales Orders'.
wa_layo-ctab_fname = 'CELLCOLOR'. "for cell coloring
wa_layo-excp_fname = 'LIGHTS'. "for traffic lights
ENDFORM.                                " LAYOUTVBAK

FORM DISPLAYVBAK .
CALL METHOD VBAK_GRID->SET_TABLE_FOR_FIRST_DISPLAY
EXPORTING

```

```

        IS_LAYOUT                                = wa_layo
CHANGING
        IT_OUTTAB                                = t_final_vbak
        IT_FIELDCATALOG                          = t_fcat.
ENDFORM.                                         " DISPLAYVBAK

FORM DROPDOWN_ORDERTYPE .
    data : t_drop type lvc_t_drop,
           wa_drop type lvc_s_drop.

    clear wa_drop.
    wa_drop-handle = 50.
    wa_drop-value = 'High order'.
    append wa_drop to t_drop.

    clear wa_drop.
    wa_drop-handle = 50.
    wa_drop-value = 'Medium order'.
    append wa_drop to t_drop.

    clear wa_drop.
    wa_drop-handle = 50.
    wa_drop-value = 'Low order'.
    append wa_drop to t_drop.

    CALL METHOD VBAK_GRID->SET_DROP_DOWN_TABLE
    EXPORTING
        IT_DROP_DOWN                = t_drop.
ENDFORM.                               " DROPDOWN_ORDERTYPE

```

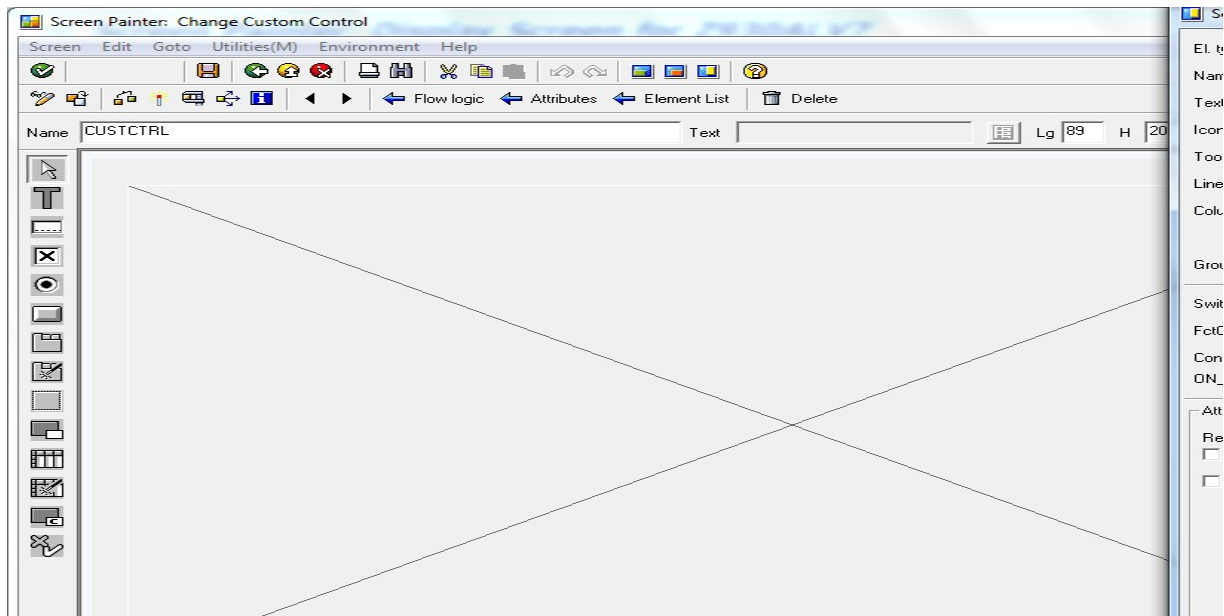
#### **Flow logic of screen 100:**

```

PROCESS BEFORE OUTPUT.
    MODULE STATUS_0100.
*
PROCESS AFTER INPUT.
    MODULE USER_COMMAND_0100.

```

Layout of screen 100:



GUI status of screen 100:

