ZCL_ES_ALV_OM   Release 740   System
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        Class: ZCL_ES_ALV_OM
        Status: Active

        Attributes

        Description: ALV Object Model
        Instantiation: Abstract
        Not final
        Not released
        Fixed pt.arithmetic
        Category: General Object Type
        Package: ZPCABAP
        Original lang.: EN
        Created by: P000520
        Created on: 09.12.2014
        Last changed by: P000597
        Last changed on: 21.02.2015

        Attributes
        Public attributes
        Attrib.   Cat   Description   Ref. Type   Init.
value

_____
        REPID   Inst (read only)   TYPE SYREPID
        TITLE   Inst (read only)   TYPE
STRING_____
__

        Protected attribute
        Attrib.   Cat   Description   Ref. Type   Init.
value

_____
        ALV   Inst   TYPE REF TO CL_SALV_TABLE
        ALV_MSG   Inst   TYPE REF TO
CX_SALV_MSG_____
_____

        Methods

        Public methods
        AUTH_CHECK
        Description:
        Instance mthd

```
METHOD auth_check.
ENDMETHOD.                          "auth_check

CONSTRUCTOR
Description:
Instance mthd

Importing parameter
  I_REPID TYPE SYREPID

  METHOD constructor.
    me->repid = i_repid.
  ENDMETHOD.                        "CONSTRUCTOR
```

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```
F4_LAYOUTS
Description:
Instance mthd

CHANGING parameter
  C_VARIANT TYPE SLIS_VARI
  METHOD f4_layouts.
    DATA: ls_layout TYPE salv_s_layout_info,
          ls_key    TYPE salv_s_layout_key.
    ls_key-report = me->repid.
    ls_layout = cl_salv_layout_service=>f4_layouts(
      s_key    = ls_key
      restrict = if_salv_c_layout=>restrict_none ).
    c_variant = ls_layout-layout.
  ENDMETHOD.
"f4_layouts

GET_DEFAULT_LAYOUT
Description:
Instance mthd

CHANGING parameter
  C_VARIANT TYPE SLIS_VARI

  METHOD get_default_layout.
    DATA: ls_layout TYPE salv_s_layout_info,
          ls_key    TYPE salv_s_layout_key.
```

```
      ls_key-report = me->repid.
      ls_layout = cl_salv_layout_service=>get_default_layout(
        s_key    = ls_key
        restrict = if_salv_c_layout=>restrict_none ).
      c_variant = ls_layout-layout.
    ENDMETHOD.                        "get_default_layout

  ON_AFTER_USER_COMMAND
  Description:
  Event handler for: CL_SALV_EVENTS=>AFTER_SALV_FUNCTION
  Instance mthd

  Importing parameter
    E_SALV_FUNCTION
    METHOD on_after_user_command.
    ENDMETHOD.                        "ON_AFTER_USER_COMMAND


  ON_BEFORE_USER_COMMAND
  Description:
  Event handler for: CL_SALV_EVENTS=>BEFORE_SALV_FUNCTION
  Instance mthd
  Importing parameter
    E_SALV_FUNCTION

    METHOD on_before_user_command.
    ENDMETHOD.                        "ON_BEFORE_USER_COMMAND
```

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```
  ON_DOUBLE_CLICK
  Description:
  Event handler for: CL_SALV_EVENTS_TABLE=>DOUBLE_CLICK
  Instance mthd

  Importing parameter
    ROW
    COLUMN
    METHOD on_double_click.
    ENDMETHOD.                        "ON_DOUBLE_CLICK

  ON_END_OF_PAGE
  Description:
  Event handler for: IF_SALV_EVENTS_LIST=>END_OF_PAGE
```

```
          Instance mthd

          Importing parameter
            R_END_OF_PAGE
            PAGE

            METHOD on_end_of_page.
              DATA: lr_content TYPE REF TO cl_salv_form_element.
              DATA: lr_grid TYPE REF TO cl_salv_form_layout_grid,
                    l_text  TYPE        string.
*... in the cell [1,1] create header information
              MOVE 'END_OF_PAGE' TO l_text.
*... create a grid
              CREATE OBJECT lr_grid.
              lr_grid->create_header_information(
                row    = 1
                column = 1
                text   = l_text
                tooltip = l_text ).
              lr_content = lr_grid.
*... set the content
              r_end_of_page->set_content( lr_content ).
            ENDMETHOD.                      "on_end_of_page

          ON_LINK_CLICK
          Description:
          Event handler for:
CL_SALV_EVENTS_TABLE=>IF_SALV_EVENTS_ACTIONS_TABLE~LINK_CLICK
          Instance mthd

          Importing parameter
            ROW
            COLUMN
            METHOD on_link_click.
            ENDMETHOD.                      "ON_LINK_CLICK
```

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          ON_TOP_OF_PAGE

```
          Description:
          Event handler for: IF_SALV_EVENTS_LIST=>TOP_OF_PAGE
          Instance mthd

          Importing parameter
            R_TOP_OF_PAGE
            PAGE
            TABLE_INDEX
            METHOD on_top_of_page.
              DATA: lr_content TYPE REF TO cl_salv_form_element.
              DATA: lr_grid TYPE REF TO cl_salv_form_layout_grid,
                    l_text  TYPE         string.
*... in the cell [1,1] create header information
              MOVE 'TOP_OF_PAGE' TO l_text.
*... create a grid
              CREATE OBJECT lr_grid.
              lr_grid->create_header_information(
                row    = 1
                column = 1
                text    = l_text
                tooltip = l_text ).
              lr_content = lr_grid.
              r_top_of_page->set_content( lr_content ).
            ENDMETHOD.                        "on_top_of_page

          ON_USER_COMMAND
          Description:
          Event handler for: CL_SALV_EVENTS=>ADDED_FUNCTION
          Instance mthd

          Importing parameter
            E_SALV_FUNCTION

            METHOD on_user_command.
            ENDMETHOD.                        "ON_USER_COMMAND

          PUBLISH_ALV
          Description:
          Instance mthd

          Importing parameter
            I_VARIANT TYPE SLIS_VARI
          CHANGING parameter
            ITAB TYPE TABLE

            METHOD publish_alv.
              TRY.
                  cl_salv_table=>factory(
                    EXPORTING
                      list_display = abap_false
                    IMPORTING
                      r_salv_table = alv
```

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```
            CHANGING
              t_table      = itab ).
        CATCH cx_salv_msg INTO alv_msg.
          MESSAGE alv_msg TYPE 'I'.
          EXIT.
      ENDTRY.
      me->process_functions( ).
      me->set_columns( ).
      me->process_layout( i_variant ).
      me->register_events( ).
      me->process_report_headers( ).
      alv->display( ).
    ENDMETHOD.                    "publish_alv

    SET_REPORT_TITLE
    Description:
    Instance mthd

    Importing parameter
      I_TITLE TYPE CSEQUENCE
      METHOD set_report_title.
        me->title = i_title.
      ENDMETHOD.                    "SET_REPORT_TITLE


    Protected methods
    PROCESS_FUNCTIONS
    Description:
    Instance mthd

      METHOD process_functions.
    *... Functions
    *... activate ALV generic Functions
    *... include own functions by setting own status
    *  alv->set_screen_status(
    *    pfstatus     =  'SAPLSLVC_FULLSCREEN'
    *    report       =  'SAPLSLVC_FULLSCREEN' "me->repid
    *    set_functions = alv->c_functions_all ).
        DATA: lr_functions TYPE REF TO cl_salv_functions_list.
        lr_functions = alv->get_functions( ).
        lr_functions->set_all( abap_true ).
        lr_functions->set_export_xml( abap_true ).
        lr_functions->set_view_lotus( abap_false ).
      ENDMETHOD.                    "process_functions

    PROCESS_LAYOUT
    Description:
    Instance mthd

    Importing parameter
```

```
        I_VARIANT TYPE SLIS_VARI
        METHOD process_layout.
*... set layout
```

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```
        DATA: lr_layout TYPE REF TO cl_salv_layout,
              ls_key    TYPE         salv_s_layout_key.
        lr_layout = alv->get_layout( ).
*... set the Layout Key
        ls_key-report = me->repid.
        lr_layout->set_key( ls_key ).
*... set usage of default Layouts
        lr_layout->set_default( abap_true ).
*... set Layout save restriction
        lr_layout->set_save_restriction(
if_salv_c_layout=>restrict_none ).
*... set INITIAL Layout
        IF i_variant IS NOT INITIAL.
          lr_layout->set_initial_layout( i_variant ).
        ENDIF.
      ENDMETHOD.                       "process_layout

      PROCESS_REPORT_HEADERS
      Description:
      Instance mthd

        METHOD process_report_headers.
          me->process_top_of_list( ).
          me->process_top_of_list_print( ).
        ENDMETHOD.                     "process_report_headers

      PROCESS_TOP_OF_LIST
      Description:
      Instance mthd

        METHOD process_top_of_list.
          DATA: lr_grid   TYPE REF TO cl_salv_form_layout_grid,
                lr_grid_1 TYPE REF TO cl_salv_form_layout_grid,
                lr_flow   TYPE REF TO cl_salv_form_layout_flow,
                lr_label  TYPE REF TO cl_salv_form_label,
                lr_text   TYPE REF TO cl_salv_form_text,
                l_text    TYPE         string.
          CREATE OBJECT lr_grid.
```

```
        IF me->title IS NOT INITIAL.
          lr_grid->create_header_information(
            row    = 1
            column = 1
            text    = me->title
            tooltip = me->title ).
        ENDIF.
*... in the cell [2,1] create a grid
        lr_grid_1 = lr_grid->create_grid(
                    row    = 2
                    column = 1 ).
*... in the cell [1,1] of the second grid create a label
        lr_text = lr_grid_1->create_text(
          row    = 1
          column  = 1
          colspan = 2
          text    = 'Stemac - Grupos Geradores'(st1)
```

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```

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```
          tooltip = 'Stemac - Grupos Geradores'(st1) ).
        lr_flow  = lr_grid_1->create_flow(
          row    = 2
          column = 1 ).
        lr_label = lr_flow->create_label(
          text    = 'Program:'(t02)
          tooltip = 'Program: '(t02) ).
        lr_text = lr_flow->create_text(
          text    = sy-cprog
          tooltip = sy-cprog ).
        lr_flow  = lr_grid_1->create_flow(
          row    = 3
          column = 1 ).
        lr_label = lr_flow->create_label(
          text    = 'System:'(t03)
          tooltip = 'System:'(t03) ).
        lr_text = lr_flow->create_text(
          text    = sy-sysid
          tooltip = sy-sysid ).
        lr_flow  = lr_grid_1->create_flow(
          row    = 3
          column = 2 ).
        lr_label = lr_flow->create_label(
          text    = 'Client:'(t04)
          tooltip = 'Client:'(t04) ).
```

```
        lr_text = lr_flow->create_text(
          text    = sy-mandt
          tooltip = sy-mandt ).
        lr_flow  = lr_grid_1->create_flow(
           row     = 4
           column  = 1 ).
DATA: date1(12) TYPE c.
DATA: time1(8) TYPE c.
WRITE sy-datum TO date1.
WRITE sy-uzeit TO time1.
DATA: tzonesys TYPE tznzonesys.
SELECT SINGLE tzonesys FROM ttzcu INTO tzonesys.
        lr_label = lr_flow->create_label(
          text    = 'Date:'(t05)
          tooltip = 'Date:'(t05) ).
        lr_text = lr_flow->create_text(
          text    = date1
          tooltip = date1 ).
        lr_flow  = lr_grid_1->create_flow(
           row     = 4
           column  = 2 ).
        lr_label = lr_flow->create_label(
          text    = 'Time:'(t06)
          tooltip = 'Time:'(t06) ).
        lr_text = lr_flow->create_text(
          text    = time1
          tooltip = time1 ).
        lr_text = lr_flow->create_text(
          text    = tzonesys
```

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        tooltip = tzonesys).
        IF sy-timlo NE sy-uzeit.
          WRITE sy-datlo TO date1.
          WRITE sy-timlo TO time1.
          lr_flow = lr_grid_1->create_flow(
             row   = 5
             column = 1).
          lr_label = lr_flow->create_label(
            text   = 'Local Date:'(t07)
            tooltip = 'Local Date:'(t07)).
          lr_text = lr_flow->create_text(
            text   = date1
            tooltip = date1).

```
            lr_flow  = lr_grid_1->create_flow(
              row     = 5
              column  = 2 ).
            lr_label = lr_flow->create_label(
              text    = 'Local Time:'(t08)
              tooltip = 'Local Time:'(t08) ).
            lr_text = lr_flow->create_text(
              text    = time1
              tooltip = time1 ).
            lr_text = lr_flow->create_text(
              text    = sy-zonlo
              tooltip = sy-zonlo ).
          ENDIF.
          alv->set_top_of_list( lr_grid ).
        ENDMETHOD.                        "process_top_of_list


      PROCESS_TOP_OF_LIST_PRINT
      Description:
      Instance mthd

        METHOD process_top_of_list_print.
          me->process_top_of_list( ).
        ENDMETHOD.                        "process_top_of_list_print


      REGISTER_EVENTS
      Description:
      Instance mthd

        METHOD register_events.
  *... register to the events of cl_salv_table
          DATA: lr_events TYPE REF TO cl_salv_events_table.
          lr_events = alv->get_event( ).
  *... register to the events (Please only register those events
you are using).
  *   SET HANDLER me->on_user_command        FOR lr_events.
  *   SET HANDLER me->on_before_user_command FOR lr_events.
  *   SET HANDLER me->on_after_user_command  FOR lr_events.
  *   SET HANDLER me->on_double_click         FOR lr_events.
  *   SET HANDLER me->on_top_of_page          FOR lr_events.
  *   SET HANDLER me->on_end_of_page          FOR lr_events.
        ENDMETHOD.                        "REGISTER_EVENTS
```

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```
        SET_COLUMNS
        Description:
        Instance mthd

          METHOD set_columns.
        *... SET the columns
            DATA: lr_columns TYPE REF TO cl_salv_columns.
            lr_columns = alv->get_columns( ).
            lr_columns->set_optimize( abap_true ).
          ENDMETHOD.                        "set_columns


        Redefined Methods



        Local Types
        *"* use this source file for any type of declarations (class
        *"* definitions, interfaces or type declarations) you need for
        *"* components in the private section
        Local class definitions

        *"* use this source file for the definition and implementation of
        *"* local helper classes, interface definitions and type
        *"* declarations
        Macros
        *"* use this source file for any macro definitions you need
        *"* in the implementation part of the class
```

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