

Hyperlink in ALV

Version 1.0

Author – Prateek Shirod

Date - 03 May 2018

Purpose

This document covers how to add hyperlink to ALV report. This is high level document and assume resource has basic knowledge of ABAP.

Let's make the ALV interactive by adding the Hotspot aka Hyperlink into the ALV generated by SALV IDA by using the DISPLAY_OPTIONS for column.

```
METHOD activate_hot_spot.

TRY.
    o_salv_ida->field_catalog( )->display_options(
    )->display_as_link_to_action( 'MSGNR' ).
    SET HANDLER me->handle_hot_spot
    FOR o_salv_ida->field_catalog( )->display_options( ).
CATCH cx_salv_ida_unknown_name
    cx_salv_call_after_1st_display.
ENDTRY.

ENDMETHOD.

METHOD handle_hot_spot.

TYPES:
    BEGIN OF lty_wa.

DATA: ls_wa TYPE lty_wa.

TRY.
    eo_row_data->get_row_data(
        EXPORTING iv_request_type = if_salv_gui_selection_ida=>cs_reque
        IMPORTING es_row          = ls_wa ).
```

Preface

Hotspot or Hyperlink is a key functionality for any ALV, no matter which ALV type you use – SALV Model, SALV IDA or Classical ALV. You now already know how to play with SALV IDA Column properties. In this article, let's take it further by adding a hyper link.

As always, this code lines are based on the template program which is available at SALV IDA Introduction.

Any hotspot functionality would be divided into two parts: Implementing the Hotspot, and Handling the action

SALV IDA Activate Hotspot

To activate the Hotspot, you would need to call the same method FIELD_CATALOG as we used in the SALV IDA Column Settings.

- Call method FIELD_CATALOG () to get the field catalog object
- Call method DISPLAY_OPTIONS () to get the display properties of the column
- Call method DISPLAY_AS_LINK_TO_ACTION () to activate the Hyperlink or

Hotspot on the column. Provide the column name for which this is required.

SALV IDA Handle Hotspot

Once the Hotspot is added, we would need to handle it. It won't be handled by itself To handle the Hotspot,

- Declare the event Handler for event CELL_ACTION of the interface

IF_SALV_GUI_FIELD_DISPLAY_OPT

- Use statement SET HANDLER to handle this event handler for the

DISPLAY_OPTIONS () object

Code Lines

Code lines to add and handle the hotspot on SALV IDA:

```
*$*$1
METHODS:
    activate_hot_spot,
    handle_hot_spot
    FOR EVENT cell_action OF if_salv_gui_field_display_opt
    IMPORTING ev_field_name
    eo_row_data.
*$*$1
*$*$2
    me->activate_hot_spot( ).
*$*$2
*$*$3
METHOD activate_hot_spot.

TRY.
    o_salv_ida->field_catalog( )->display_options(
    )->display_as_link_to_action( 'MSGNR' ).
    SET HANDLER me->handle_hot_spot
    FOR o_salv_ida->field_catalog( )->display_options( ).
    CATCH cx_salv_ida_unknown_name
        cx_salv_call_after_1st_display.
ENDTRY.
```

```

ENDMETHOD.
METHOD handle_hot_spot.

TYPES:
  BEGIN OF lty_wa.
    INCLUDE TYPE t100.
    INCLUDE TYPE lcl_t100_new_fields=>ty_t100_new_fields.
  TYPES:
  END OF lty_wa.

DATA: ls_wa TYPE lty_wa.

TRY.
  eo_row_data->get_row_data(
    EXPORTING iv_request_type =
if_salv_gui_selection_ida=>cs_request_type-all_fields
    IMPORTING es_row      = ls_wa ).

  cl_salv_ida_show_data_row=>display(
    iv_text = `Hyper Link for ` && ev_field_name
      && ` and value ` && ls_wa-msgnr
    is_data = ls_wa ).

  CATCH cx_salv_ida_contract_violation
    cx_salv_ida_sel_row_deleted.
ENDTRY.
ENDMETHOD.
*$$3

```

Output

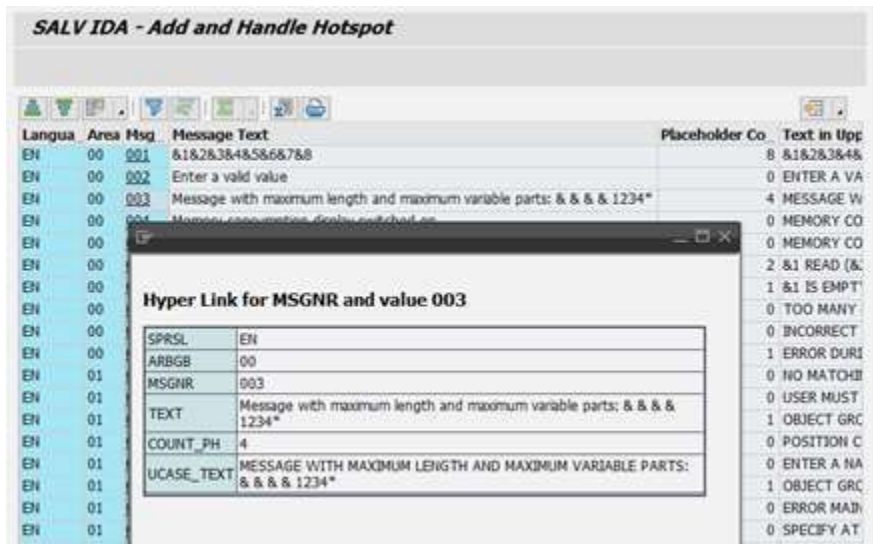
On the output screen, the hyperlink is displayed:

Language	Area	Msg.	Message Text	Placeholder Co.	Text in Upper Case
EN	00	001	%1&2&3&4&5&6&7&8	8	%1&2&3&4&5&6&7&8
EN	00	002	Enter a valid value	0	ENTER A VA
EN	00	003	Message with maximum length and maximum variable parts: % & % & 1234*	4	MESSAGE W
EN	00	004	Memory consumption display switched on	0	MEMORY CO
EN	00	005	Memory consumption display switched off	0	MEMORY CO
EN	00	006	%1 read (%2 lines)	2	%1 READ (%
EN	00	007	%1 is empty	1	%1 IS EMPT
EN	00	008	Too many nested system menus	0	TOO MANY
EN	00	009	Incorrect index for screen save stack	0	INCORRECT
EN	00	010	Error during semaphore operation: %	1	ERROR DURI
EN	01	001	No matching user found	0	NO MATCHI
EN	01	002	User must be saved before assigning task profiles	0	USER MUST
EN	01	003	Object group % saved	1	OBJECT GRC

Once you click on the Hyperlink for the column MSGNR, you would get this small popup.

This is generated by another class CL_SALV_IDA_SHOW_DATA_ROW. The class contains the method DISPLAY to display the data for the single row.

SALV IDA - Add and Handle Hotspot



Language	Area	Msg	Message Text	Placeholder Co	Text in Upp
EN	00	001	&1&2&3&4&5&6&7&8	8	&1&2&3&4&
EN	00	002	Enter a valid value	0	ENTER A VA
EN	00	003	Message with maximum length and maximum variable parts: & & & 1234*	4	MESSAGE W
EN	00	004	Memory allocation: &1&2&3&4&5&6&7&8	0	MEMORY CO
EN	00			0	MEMORY CO
EN	00			2	&1 READ (&
EN	00			1	&1 IS EMPT
EN	00			0	TOO MANY
EN	00			0	INCORRECT
EN	00			1	ERROR DURI
EN	01			0	NO MATCHI
EN	01			0	USER MUST
EN	01			1	OBJECT GRC
EN	01			0	POSITION C
EN	01			0	ENTER A NA
EN	01			1	OBJECT GRC
EN	01			0	ERROR MAD
EN	01			0	SPECIFY AT

Hyper Link for MSGNR and value 003

SPRSL	ARBGB	MSGNR	TEXT	COUNT_PH	UCASE_TEXT
EN	00	003	Message with maximum length and maximum variable parts: & & & 1234*	4	MESSAGE WITH MAXIMUM LENGTH AND MAXIMUM VARIABLE PARTS: & & & 1234*