

LOAD-OF-PROGRAM

First event to be called before any of the other ABAP code is processed

INITIALIZATION

This is triggered when the report is loaded in memory. It happens just once in program execution. This is called after the ABAP selection screen code has been processed (i.e. parameters, select-options etc) but before these are displayed to the user. So you can use it to initialize input fields of the selection screen or change the default values of these before the user gets to enter data into them.

AT SELECTION SCREEN OUTPUT

This is called just before the selection screen is displayed and can be used to manipulate the actual selection screen attributes using the loop at screen functionality. This allows you to do things like hide fields, grey them out so they are output only or make them intensified etc.

LOOP AT SCREEN.

IF SCREEN-name = 'P_FIELD1'.

SCREEN-INTENSIFIED = '1'.

MODIFY SCREEN.

CONTINUE.

ENDIF.

ENDLOOP.

AT SELECTION-SCREEN.

This event is triggered when the user presses enter on the report selection screen and is mainly used to add processing related to screen validation. Within the AT SELECTION SCREEN event, you have not left the selection screen, which allows you to manipulate the values contained within selection screen parameters or stop the program and return the user to the selection screen by displaying an error message.

AT SELECTION-SCREEN ON

This allows you to add processing to a selection screen field for when it is changed, user presses F1 or F4 etc using the following parameters

<parameter1>

AT SELECTION-SCREEN ON Block <block1>

AT SELECTION-SCREEN ON HELP-REQUEST for <parameter1> (i.e. When press F1)

AT SELECTION-SCREEN ON VALUE-REQUEST for <parameter1> (i.e. When press F4)

AT SELECTION-SCREEN ON RADIOBUTTON for <parameter1> (i.e. When press F4)

AT SELECTION-SCREEN ON P_FIELD1.

AT SELECTION-SCREEN ON help-request for P_FIELD1.

TOP-OF-PAGE

This is called when a new page is started with an ABAP list and is used to display a header for the list.

TOP-OF-PAGE During LINE_SELECTION

If you use the 'DURING LINE-SELECTION' addition this event is also triggered when creating detailed lists.

END-OF-PAGE

This is displayed at the end of each page if there is a line reservation in the addition LINE-COUNT of the initiating statement for a page footer.

```
REPORT demo_rep NO STANDARD PAGE HEADING  
LINE-COUNT 0(1).
```

START-OF-SELECTION

This event is called if the user executes the program either by pressing the execute button or F8. This is the first event triggered after all screen selection processing has been completed (AT Selection...). So pressing execute triggers both AT SELECTION and then START-OF-SELECTION

If no other events are declared then there is no need to manually code this event as all processing statements will be automatically assigned to an implicit START-OF-SELECTION block. It is a good idea to put it in though as it separates the code and makes it easier to read. Generally you would put all your data selection ABAP code within this event.

END-OF-SELECTION

If your report is linked to a logical database this event is called after the logical database has completely finished its work. Otherwise this event is triggered after the START-OF-SELECTION event so you would generally use it to process the data retrieved in that event.