

Results Interface

The following topics are covered:

- Purpose of the Results Interface
- Results Window Control Bar Access
- Tab Handling
- Image Handling
- Context-Menu Handling
- Command Handling
- Column Handling
- Row Handling
- Data Handling
- Selection Handling

See also Results Window.

Purpose of the Results Interface

The Results Interface enables programmers to display data within the results window. The results of CAT ALL and FIND OBJECTS are not affected by the Results Interface.

The design and the usage of a tab can be determined via user exits. In general, a detailed view with columns and lines is used.

Context menus can be created for each entry, so that after the user-defined tab is shown it can be used for further processing.

This processing has to be defined within two programs.

1. in an update Command Handler before a context menu is shown;
2. in a Command Handler if an item is selected.

The user exits for the Results Interface are **USR5001N - USR5016N** and can be found in the library SYSEXT.

An example of the various functions is available in **USR5001P** with the command handler in **USR5001A** and **USR5001B**.

Note:

Modifications of the pre-defined tabs (e.g. **Find Objects** and **Cat All**) are not possible with this interface. The Results Window and the Results Interface can be accessed only from Natural Studio.

Results Window Control Bar Access

In this section, the Results Window Control Bar can be accessed.

User Exit	Functionality
USR5001N	Turns Results Window on/off. Checks visibility of the Results Window.

Tab Handling

In this section, the general layout of a tab can be defined.

A tab can contain all or one of the following:

- Check Box
- Full Row selection
- Single Row selection
- Images

A tab can be defined with the following attributes:

- Layout of the view (Large / small icons, list or details view)
- Several usages (Check boxes, images, grid lines, full or single row selection, view change)
- Layout of the tab label (Text, bitmap or icon)

User Exit	Functionality
USR5004N	Add, replace and delete a tab.
USR5005N	Set and get active tab. Set tab active and set the focus on this tab

Image Handling

In this section, bitmaps (*.bmp) and icons (*.ico) can be specified for a previously defined tab.

User Exit	Functionality
USR5002N	Add and delete bitmaps and icons for a specified tab.

Context-Menu Handling

In this section, user-defined context-menus can be specified.

User Exit	Functionality
USR5003N	Add, remove and delete context-menus of a tab.
USR5007N	Set and get checked/enabled state of context-menu items.

The hierarchy of the context-menu must be defined manually.

The following array components can be defined:

Array Component	Value	Description
Type	1 to 4	1 - Context-Menu Handling 2 - Separator line 3 - Begin of submenu 4 - End of submenu
Command ID	1 to 255	Free selectable number to identify a certain item in a context menu (used within the command handler).
Label	alpha-numeric text	Text for the context-menu items of type 1 and 3. A text for the status bar can be separated with H'O'A.
Image	Handle of image	Handle of a previously defined image (bitmap or icon). The image will be placed before the text of the context-menu item.

Command Handling

A program can be assigned as an update command handler or as a command handler.
User defined data can be saved / restored in the internal work area of the command handlers.

For example: handles of tabs.

User Exit	Functionality
USR5006N	Define update command handler and command handler.
USR5016N	Set and get data for the command handler work area.

Column Handling

In this section, the general layout of a column can be defined.
A column can contain all or one of the following:

- Title
- Width
- Data position
- Column sort

In addition, the default width and specified width of the column can be set up individually.

User Exit	Functionality
USR5008N	Add, insert and delete columns of a tab.
USR5010N	Set and get default column width and width for specified columns.
USR5009N	Count number of columns.

Row Handling

In this section, the rows with images and context menus can be defined.

User Exit	Functionality
USR5011N	Add, insert and delete rows of a tab.
USR5009N	Count number of rows.

Data Handling

In this section, user defined data can be written into defined columns/rows.

If check boxes have been defined for a tab, then they can be activated/deactivated for every row.

User Exit	Functionality
USR5012N	Set and get data into a tab.
USR5013N	Set and get checked state of a row.

Selection Handling

In this section, rows can be individually selected.

User Exit	Functionality
USR5014N	<ul style="list-style-type: none"> ● Set and get selected rows. ● Count amount of selected rows. ● Reset row selection.
USR5015N	Set and get row of focus.