800xA System Extensions
Interlock Viewer and Effect Viewer
Optional features of the PC Toolkit Library for AC800M

The PC Toolkit Library for AC800M is a system extension for System 800xA. It extends the standard 800xA software with display libraries and functional libraries for the process industries (Chemical, Oil and Gas).

With the Interlock Viewer and the Effect Viewer two new outstanding features are available. Both viewers help the operator to either follow up the signals which make a selected object (motor/valve) to be blocked or put into safety state (Interlock Viewer), or vice versa, to look up consequences that a selected signal may have on one or even more objects (Effect Viewer). Both viewer displays are generated automatically by means of the AC800M control code.

Interlock and Effect Viewer are ready-for-use in the PC and REUSE Libraries but can also be accommodated to any other AC800M Libraries.
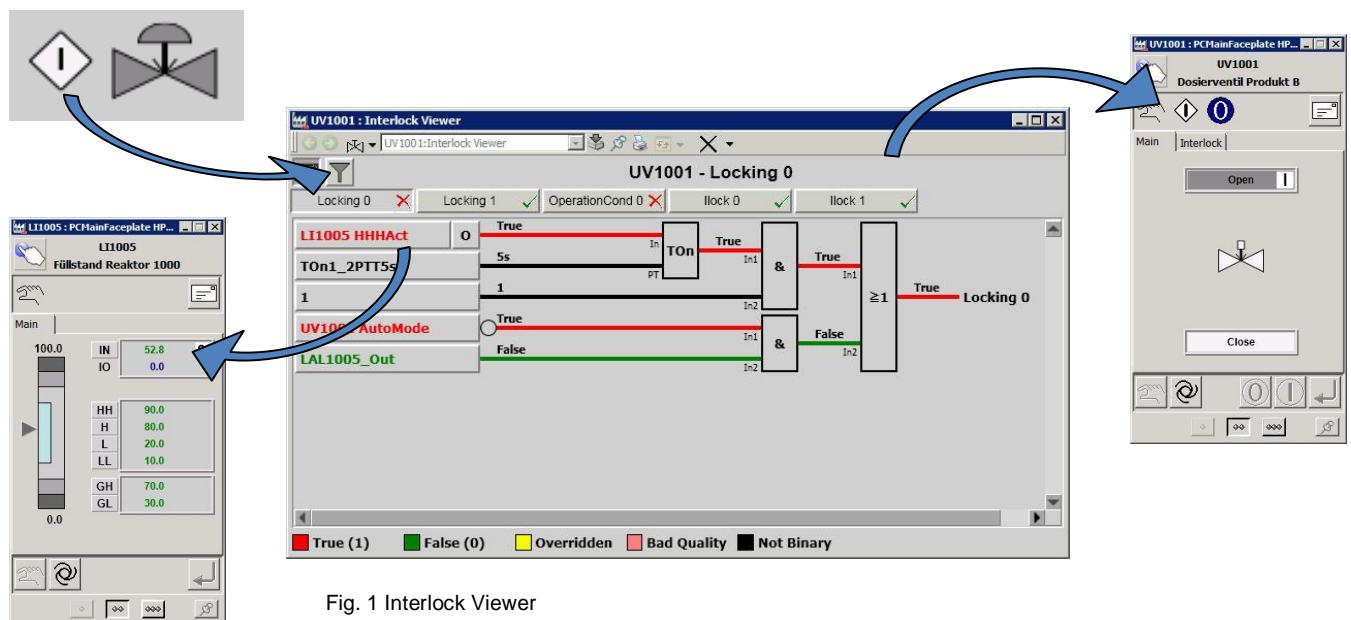

Fig. 1 Interlock Viewer

Interlock Viewer:

The Interlock Viewer is an aspect type and shows the incoming interlock and priority command criteria for the selected object types e.g. motor. Depending on the status of the variable, criteria that are met are shown in green and criteria not met are shown in red.

Criteria for interlocking or priority commands can be overridden by operator intervention if the configuration is prepared and the user right is suitable.

Navigating to the assigned default objects (Faceplate) is possible via highlighted buttons.

The Viewer can also be embedded into a graphic display.

After code complete the Interlock Viewer relevant data is analysed and uploaded. The display is generated automatically using the AC800M control code.

Customizations:

The Interlock Viewer can be customized at the users' needs:

- Size of the Interlock Viewers layout
- New or additional ports of standard or project defined control modules can be included
- Cell colors according to some criteria
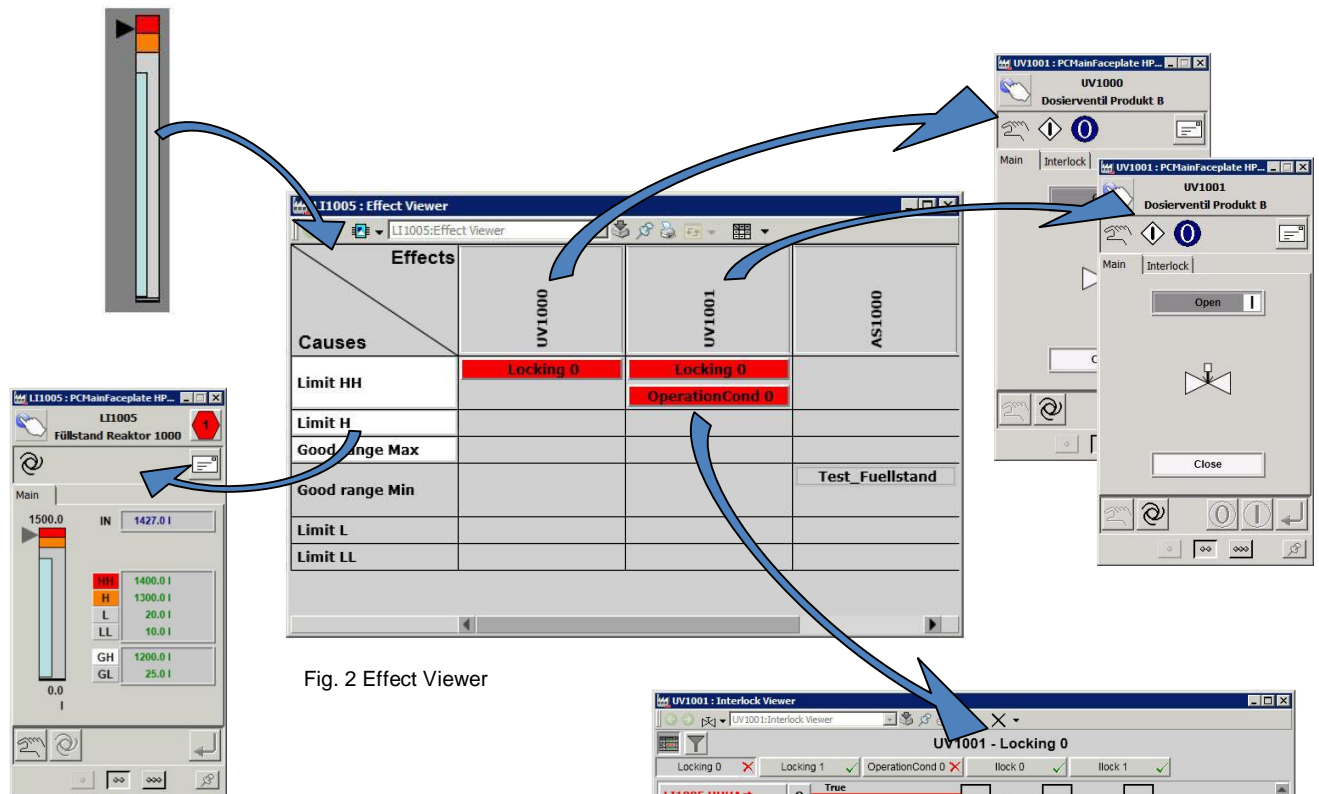- The Viewer is able to support national languages (NLS)

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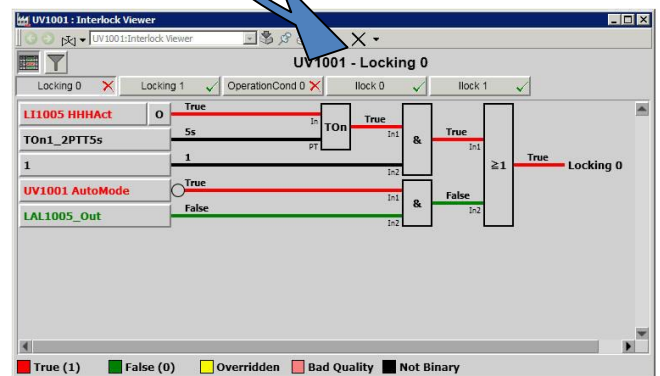Fig. 2 Effect Viewer

The Effect Viewer:

The aspect type Effect Viewer for AC800M shows the consequences of an output command for the selected object (for example limit outputs of an analog input object type). The Effect Viewer is the counter part of the Interlock Viewer and is used to see what is happening to other objects if a limit is violated or another output is changing.

The leftmost column shows the possible causes (triggers) which have effects to other objects. For every cause one row is generated. The top row shows affected objects.

The Effect Viewer is mouse sensitive and allows opening either the faceplate of the selected signal, the affected objects or the display of the Interlock Viewer.

The Viewer can also be embedded into a graphic display.

After code complete the Effect Viewer relevant data is analysed and uploaded. The display is generated automatically using the control code.

Customizations:

The Effect Viewer can be customized at the users' needs:

− Size of the Effect Viewers layout
− New or additional ports of standard or project defined control modules can be included
− Outputs that are configured but do not affect other objects can be removed from being displayed
− Cell colors for causes and effects
− The Viewer is able to support national languages (NLS)

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