Content

1 Release Notes ELOP II V5.1 build 730 IV5

This document contains supplementary notes on removed errors and improvements of ELOP II V5.1 build 730 IV5, which are not yet described in the online help.

The following information is displayed for V5.1 in the *About ELOP II* dialog box:

Release	Version designation
V5.1 build 730 IV5	ELOP II V5.1 B730.1646 IV5

1.1 Compatibility

ELOP II V5.1 can be used for all the following operating system versions:

- BS41q/51q V7.0-8
- BS41q/51q V7.0-7

ELOP II V5.1 can be used in PCs with the following operating system:

- Microsoft® Windows® XP Professional (32-bit), Service Pack 2 or higher
- Microsoft® Windows® 7 Professional/Ultimate, 32-bit
- Microsoft® Windows® 7 Professional/Ultimate, 64-bit with Windows XP mode

2 Improvements of V5.1 Compared to Previous Versions (Build 710 IV4 and IV7)

1 An enhanced HIPRO-S signature can be used for ELOP II build 730 IV5 and higher. This signature includes the entire HIPRO-S variable name, thus ensuring proper assignment of the HIPRO-S variables.
To this end, *Enhanced HIPRO-S Signature* must be activated in all involved HIPRO-S partners prior to starting the download code generation!

2 The HIPRO-S Check Tool is integrated in ELOP II build 730 IV5 and higher.

If *Enhanced HIPRO-S Signature* is deactivated, HIMA strongly recommends using the HIPRO-S Check Tool for all the resources prior to start-up and whenever a change is performed!
If improper assignment of HIPRO-S variables is detected, activate *Enhanced HIPRO-S Signature* in the affected resources and deactivate *Create reloadable code* in the code generator. With these settings, perform a download code generation for the affected resources.

Refer to the supplementary sheet to HIPRO-S Check Tool (HI 800 622 E).

3 All inputs and outputs are displayed in the Force Editor of ELOP II build 730 IV5 and higher.
Not the variables, but the inputs and outputs are forced in H41q/H51q. In the previous ELOP II version, the Force Editor only displayed inputs and outputs connected to a variable. Forced inputs and outputs not connected to a variable, were not displayed and could not be reset.
All the inputs and outputs are now displayed in the Force Editor, irrespective of whether they are connected to a variable.
All forced inputs and outputs can now be activated and deactivated in the Force Editor and have the following behavior:

- Inputs:

  Deleting the hardware assignment prevents the forced input from affecting the user program. If a new variable is associated with the forced input, the variable is set to the forced value immediately after the reload is completed.
- Outputs:

  The force value is written to the output and is effective even if no variable is connected to the output.

  [HE19938]

3 Errors of Previous Releases Removed in V5.1 (Build 710 IV4 and IV7)

1 The menu item *About ELOP II* did not display the official version designation.
The versions file now includes the entire build number, e.g., V51B730.1646IV4. The version file name is *Version* and is located in the ELOP II installation path [HE21895].

2 After code generation: Incorrect time specified for generated code comparison image.
An incorrect time for code generation (minus 6 h) could be specified in the err file. This error is removed in build 730 IV5 [HE21292].

3 Global cross-reference opened the editor view instead of the online view
In the previous version, if the program or POU name contained a dot, a cross-reference jump to the online mode opened the edit view of the global variable instead of the online view. This error is removed in build 730 IV5 [HE20368].

4 Reload is now also possible for certain BUSCOM addresses

After assignment of two relative BUSCOM addresses in the previous version, reload was no longer possible if the following conditions applied:

- Their difference was 2048.
- One of the corresponding absolute addresses (including the basic address) was less than, the other greater than 2048.

If this occurred, an error message appeared informing that the addresses were overlapping. This error is removed in build 730 IV5 [HE21046].

5 Faulty HIPRO-S sorting due to assigned system variables, I/Os or physical I/Os

The HIPRO-S variables were not sorted by name, their sorting order also depended on whether the variables were connected to I/Os.
This problem is removed in build 730 IV5, but this correction in connection with the download code generation may result in a new HIPRO-S data layout and therefore a new CRC [HE23487, HE24029].

4 Restrictions of V5.1 build 730 IV5

1 The event number cannot be assigned.

The event number can be assigned twice if the event attribute and a hardware system variable are set in the *HW Assignment* menu item for a variable. After the variable is deleted, the hardware system variable retains the event number. This event number cannot be assigned to another variable as long as it is used for the hardware system variable.

Workaround:

- In the user program for the variable, open the declaration dialog box.
- Activate *Assign Tag Name* and select hardware system variables previously connected.
- Click *Update.*
- Deactivate *Assign Tag Name* once again.
- Click *Update.*
- Save the user program.

[HE21204]

2 When generating non-reloadable code, ELOP II displays POU instances as changed.
If POUs are added and non-reloadable code is then generated, ELOP II can display the POU instances (HEADER variables) as changed even if they were not modified.
Workaround: Generate reloadable code. [HE12676]

3 Large force images cannot be loaded into the controller. Operating system version BS41q/51q V7.0-8 (07.14) refuses to load large force images with more than 60 modified forced variables. Workaround: Perform major changes to the force image in smaller steps with a maximum of 60 changes each and load them.

It is also possible to save force images after a maximum of 60 changes and then to load them into the controller. If this is done, ensure that the images are loaded in the same order as they have been saved! [HE19490]

4 Online change of system parameters may have no effects. Safety parameters may be changed online and loaded into the controller. The controller applies or ignores the changed settings depending on the **Parameter online change** safety parameter. However, since these settings are stored in the controller's working memory due to the loading process, they are also identified and displayed as safety parameter changes, although their application is prevented by the safety parameter. In particular, this occurs if the **Parameter online change** is set to FALSE and then transferred online to the PES. The displayed details no longer correspond to the settings actually used in the controller.

Workaround: Manually document the settings in use when **Parameter online change** is set to FALSE, so that they can be reset.

[HE19818]

5 Code generation aborted after language switching.
If one or more system function blocks from the ELOP LIB are used in the user program and code is generated, it may happen that code can no longer be generated after switching the language in ELOP II. After aborting the code generation, the following message in English or German is displayed:

```
Fehler beim Erhalten von Typ-Informationen für Typ-ID
Error on obtaining type information for type ID
```

Workaround: After switching the language in ELOP II, open and save the user program. In doing so, the system function blocks from the ELOP LIB used in the user program are updated. The code generation can then be performed.

[HE25508]

5 Migrating from the Previous Version 4.1

- Install the current version. Parallel installation to V4.1 is possible.
- Open the projects with the new version 5.1 build 730 IV5 and in the process, perform the conversion.

  Observe the instructions specified in the manual *New Features ELOP II V5.1* (HI 800 185 E), Chapter *Conversion*.

6 Migrating from ELOP II V5.1 Build 710 IV4 or Build 710 IV7

- Install the current version. Parallel installation to V5.1 (build 710 IV4 and build 710 IV7) is possible.
- Open the projects with the new version 5.1 build 730 IV5 and in the process, perform the conversion. Generate the code and compare the code versions.