

VisiWinNET®

Migration of VisiWinNET® Smart projects



Software manual

EN



Please read these instructions before you start working!
Observe the safety instructions included

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1 Migration of VisiWinNET® projects

This documentation contains general instructions regarding the migration of VisiWinNET® Smart projects from an existing hardware to a new one.

For example:

- EL100 to p300
- ELx800 to p500
- CPCx800 to 3200 C
- p500 to v800

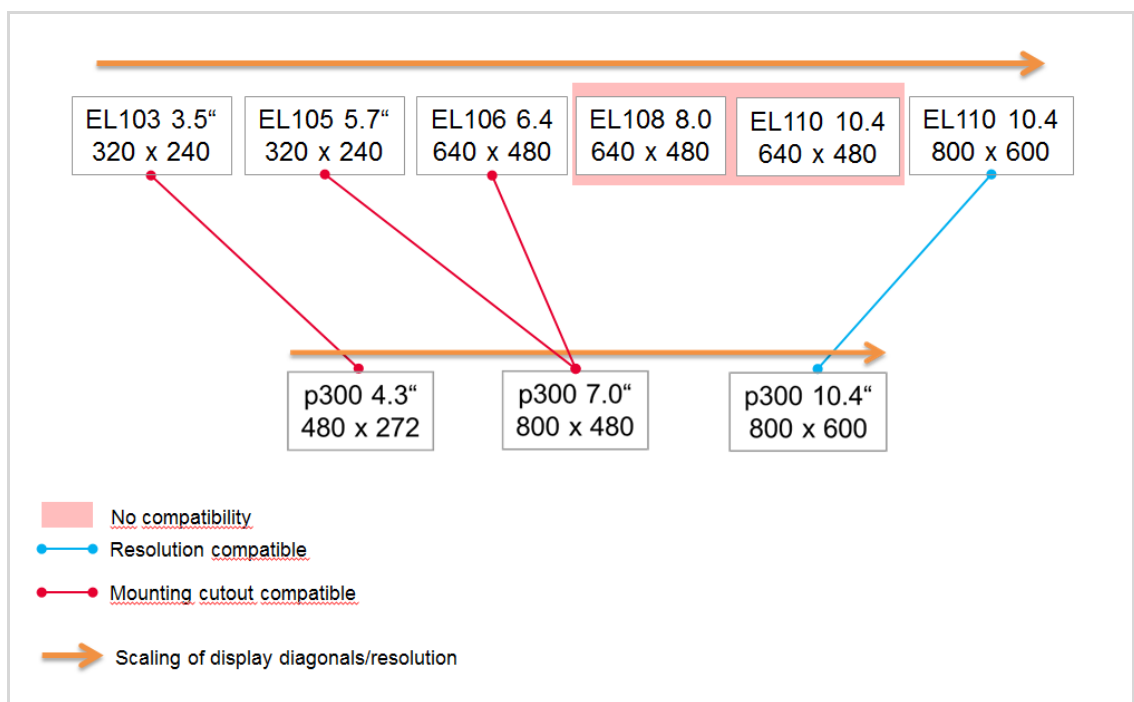


Abb. 1 Possible migration scenario EL100 to p300

2 Steps in the migration process

The migration process to a new device requires the creation of a new project of the "L-force" type!

These are the basic steps of the migration process:

- Create a VisiWinNET® Smart project for the new hardware.
- At the same time open the existing application. Two instances of the VisiWinNET® Smart integrated development environment are started (existing project and new project).
- Apply the copy/paste mechanism in VisiWinNET® Smart for transferring the configuration of an existing project to the new project.
- When carrying out a migration of the control from V2.x to V3.x at the same time, adapt the driver and its browser:
 - Replace the CoDeSys V2 driver by the LogicAndMotion V3 driver.
 - Replace the "VisiWinNET.LenzeVariables.Brw.dll" browser by "VisiWinNET.LenzeVariables2.Brw.dll".
- Adapt the driver settings (gateway node address or node name). The PLC address must be assigned. This can either be the node address or, as an alternative, the node name.
- Hardware-specific adaptations



Migration with different display resolutions

If the resolution of the new hardware is differing from that of the old hardware, all forms must be adapted manually. Since VisiwinNet Smart is based on a pixel-oriented technology, no automatic scaling options are provided. If you have any questions, please refer to the Lenze sales department.

Creating a new VWN project of the L-force type

3 Creating a new VWN project of the L-force type

Using the VisiWinNET® wizard, a new project of the L-force type can easily be created.

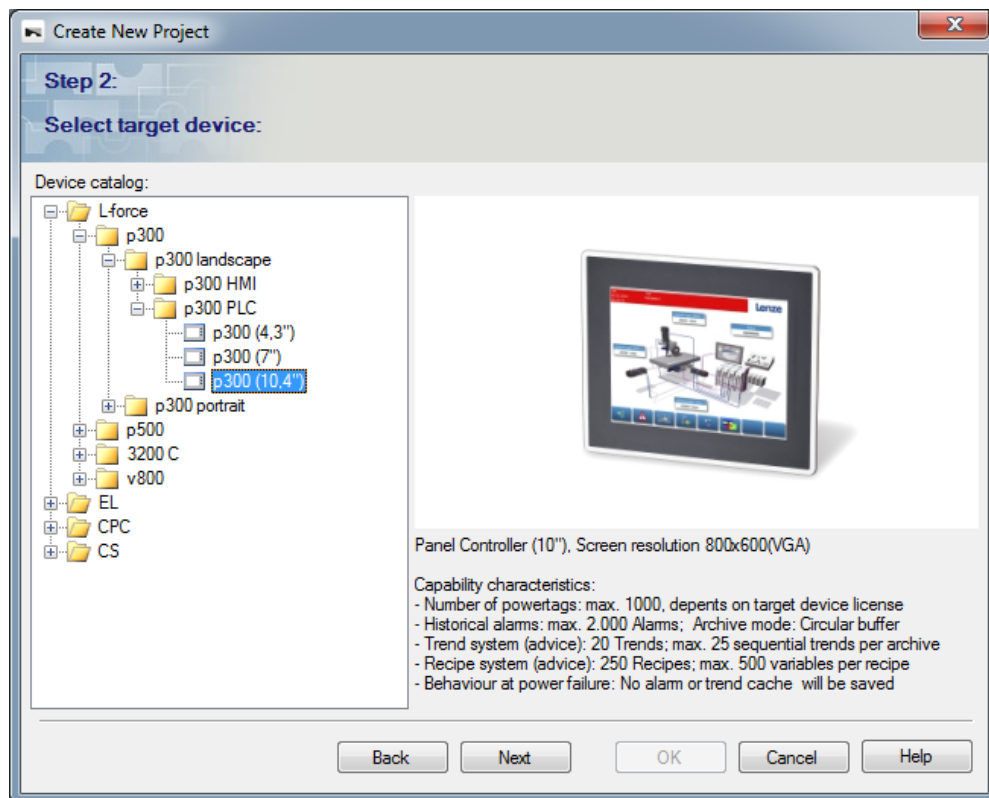


Abb. 2 VisiWinNET wizard

Migration by means of the copy/paste mechanism

4 Migration by means of the copy/paste mechanism

The copy/paste mechanism transfers the VisiWinNET® components of an HMI/IPC project to the newly created project via the Windows clipboard. The procedure is shown taking an EL100 project with a CoDeSys V2 driver as an example.

In order to make things easier, both VisiWinNET® projects (the EL100 project and the newly created p300 project) should be opened at the same time!

4.1 Copy/paste in the node design of the project tree

Transferring all forms of the EL100 project to the p300 project via copy/paste.

Specific aspects for copy/paste with forms:

- FStart cannot be copied. This form must be adapted manually. This, for instance, applies to the "FirstProjectForm [default=FCentral]!" property and the "Image" property if a corresponding customer logo has been used.
- FCentral is already available and must be deleted in the p300 project before!

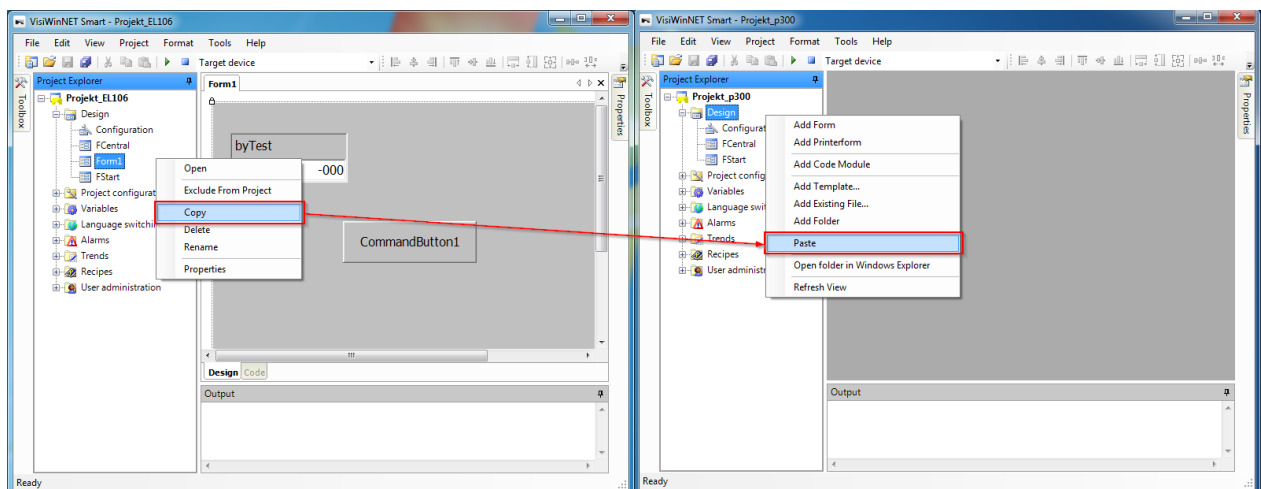


Abb. 3 VWN project EL100

VWN project p300

Migration by means of the copy/paste mechanism

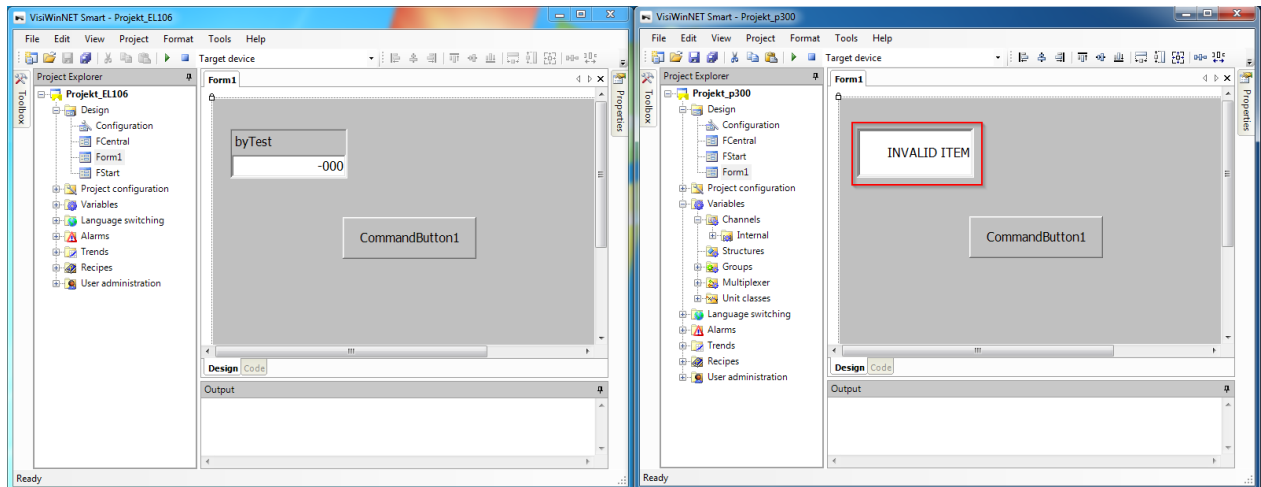


Abb. 4 Copying forms in VisiWinNET



Invalid Item

Controls with process integration are now still showing "Invalid Item", since the variable attached has not been copied yet. This is not a problem and will be corrected automatically after the variables have been added!

4.2 Copy/paste project configuration

Since the project configuration settings are specific for each project type, copying the project information is not possible. Usually no adaptations have to be carried out here.

Migration by means of the copy/paste mechanism

4.3 Copy/paste variables

The main effort of the migration process is the adaptation of the variable connection.

4.3.1 Copying all variable entries

In addition to the variables, existing structures and unit classes are also transferred.

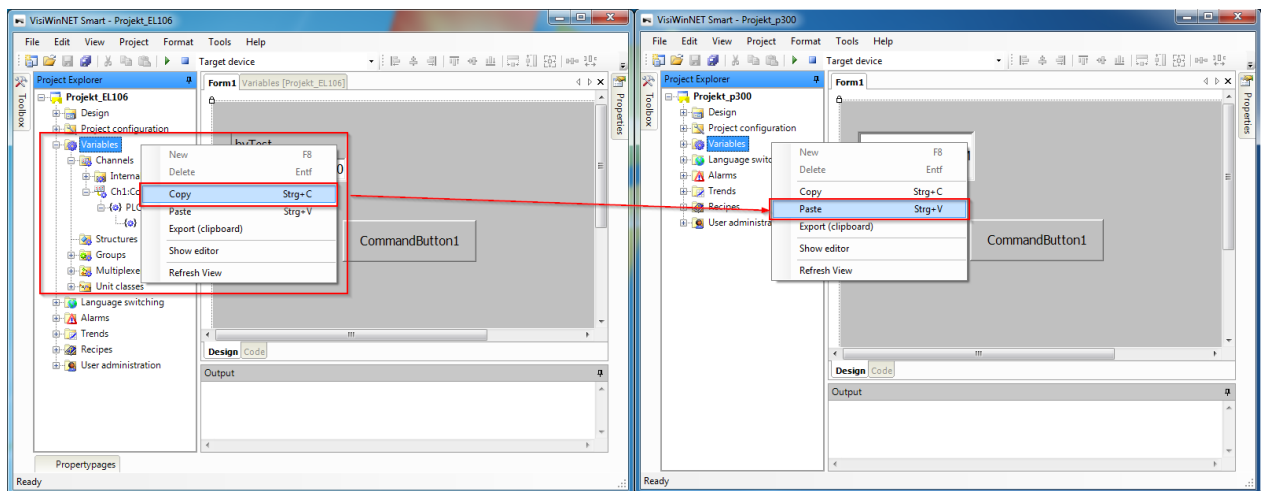
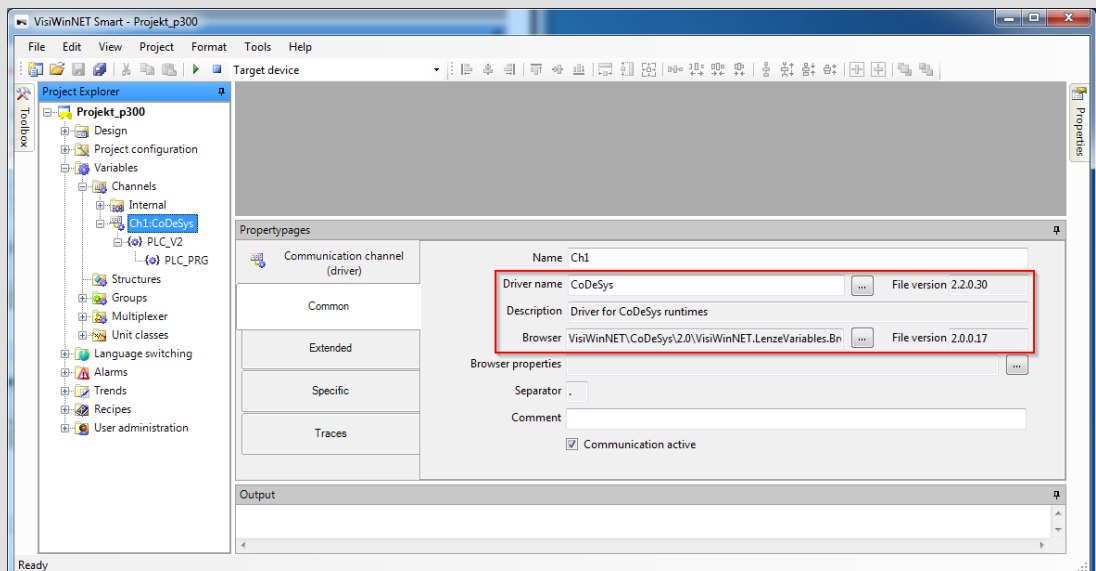


Abb. 5 Fig. Copy and paste of the variables



Wrong driver for migration from PLC V2.x to PLC. V3.x

The driver configured is not correct yet! The EL100 project uses the CoDeSys V2 driver, the p300 project, however, requires the LogicAndMotionV3 driver!



Features of the CoDeSys driver

The restrictions of the variables are described in the "Restrictions of the migration process" chapter (page 17).

Migration by means of the copy/paste mechanism

4.4 Migration for CoDeSys V2 driver to V3

4.4.1 Adaptation of the driver

The CoDeSys V2 driver is to be replaced by the LogicAndMotionV3 driver.

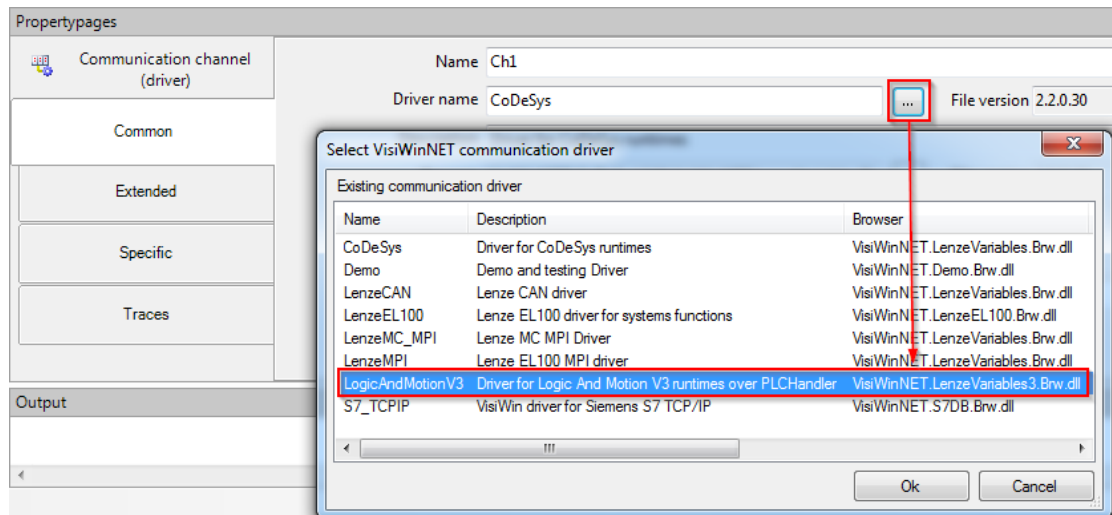


Abb. 6 Selection of the VisiWinNET drivers

4.4.2 Adapting the driver settings

In order to provide for flawless communication, the specific gateway settings of the LogicAndMotionV3 drivers have to be set!

More information about the communication settings of the LogicAndMotion V3 driver with a Lenze control can be found in the help document for the driver.

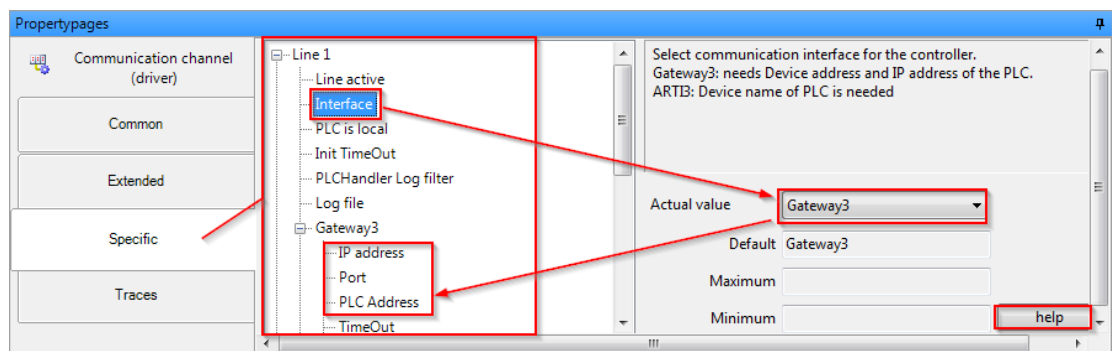


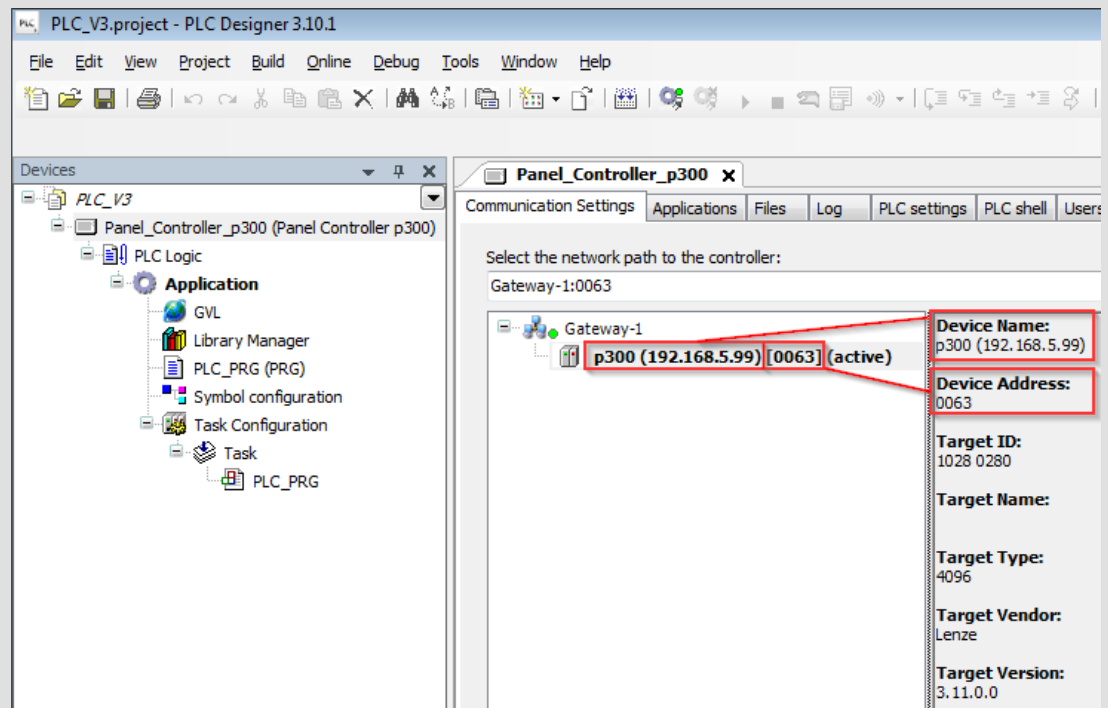
Abb. 7 Gateway settings of the VisiWinNET LogicAndMotionV3 driver

Migration by means of the copy/paste mechanism



Gateway

If the visualisation and the PLC are running on the same p300, no change in the IP address setting is necessary (default localhost: 127.0.0.1). Specifying the PLC address is mandatory. Optionally the node address [e.g. 0063] or the node name [e.g. p300 (192.168.5.99)] can be used.



Gateway settings in the PLC Designer V3

For more information see guide for the migration from PLC V2.x to V3.x

Migration by means of the copy/paste mechanism

4.4.3 Adapting the browser

In order to import the variables from the PLC Designer V3 project later on, in addition to the driver, the corresponding browser must also be adapted.

For this purpose, the "VisiWinNET.LenzeVariables2.Brw.dll" browser must be selected from the ...\\VisiWinNET 2005\\Drivers\\VisiWinNET\\LogicAndMotionV3\\2.0 VWN installation directory.

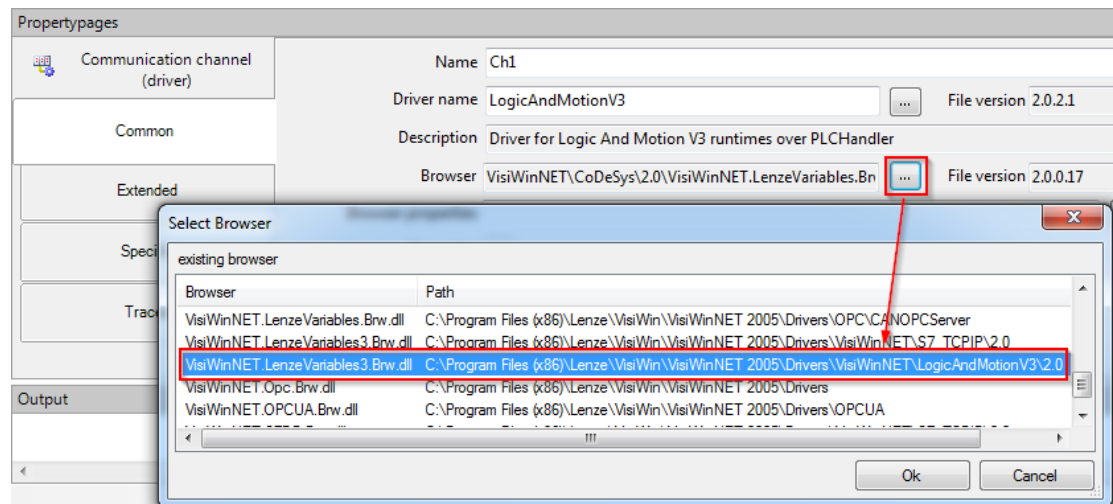


Abb. 8 Selection of the VisiWinNET browsers

Migration by means of the copy/paste mechanism

4.4.4 Adaptation of the variables

Since the structure of PLC Designer project V3 differs from the structure in V2, the copied VisiWinNET® "ItemID" of the process variables is not correct and has to be adapted. The "alias" must not be changed so that the forms copied do not have to be changed with regard to their process integration!

The ItemID must be extended by the "Application" node name between "L1" and "PLC_PRG".

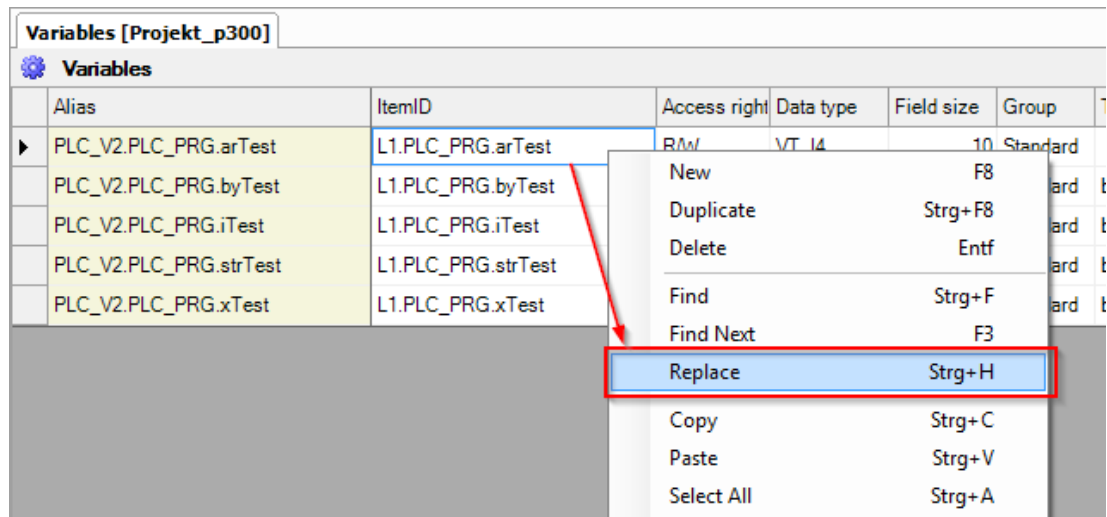


Abb. 9 Replacing the ItemID

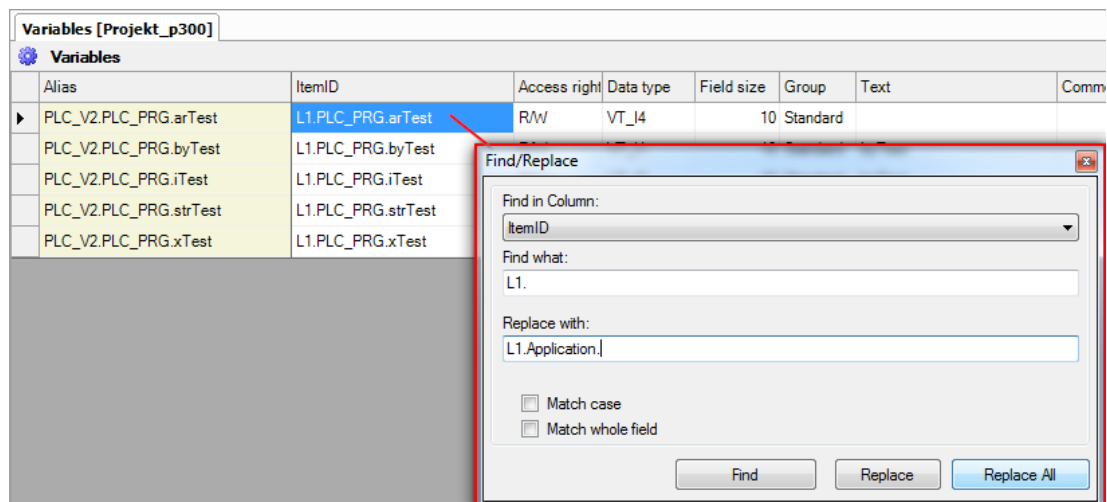


Abb. 10 Find and replace dialog

Migration by means of the copy/paste mechanism

4.4.5 Global variables

If global variables are used, the node name of the global variable list must be inserted additionally in the ItemID between "Application" and the variable name (here "GVL").

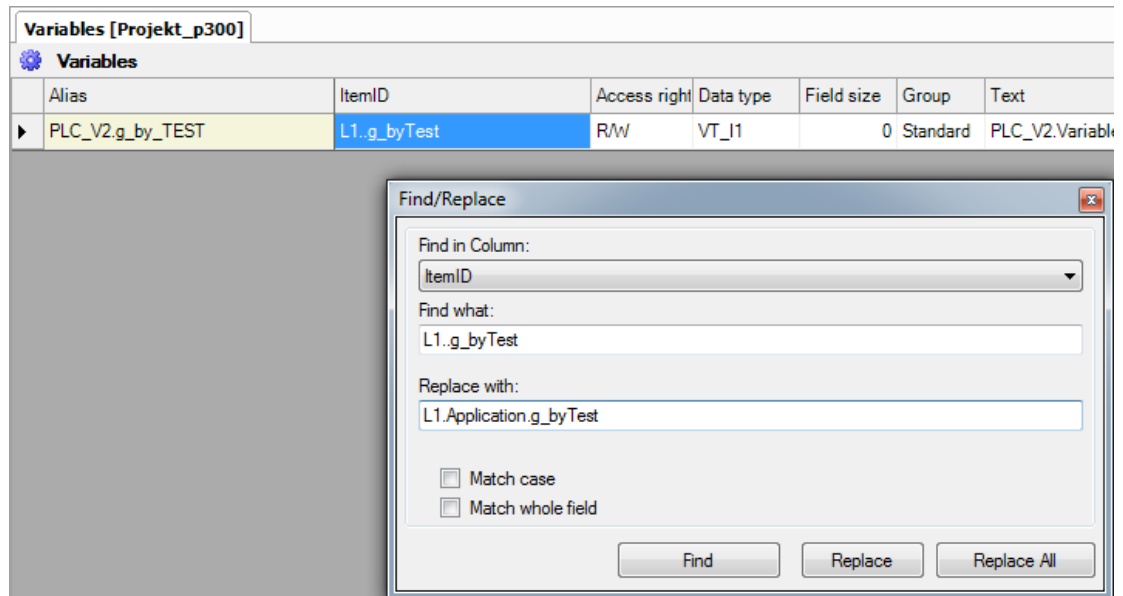
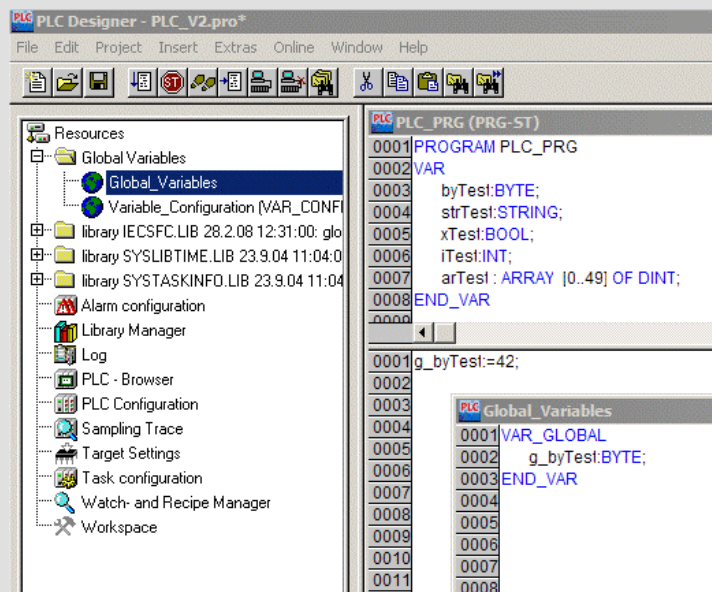


Abb. 11 Find and replace dialog



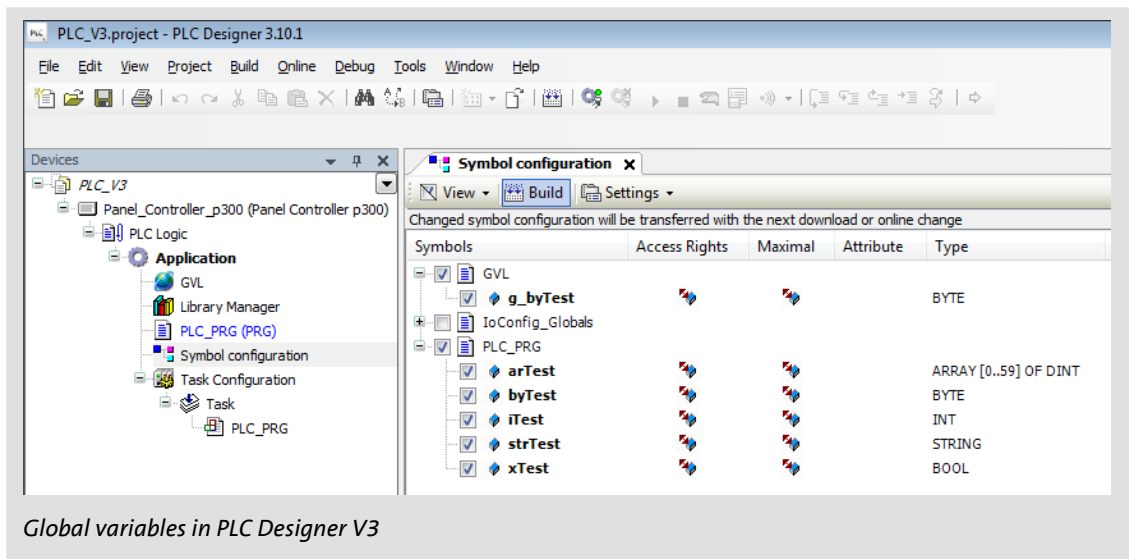
Global variables

In contrast to PLC Designer V3, the global variable list is not shown in the symbol configuration of PLC Designer V2! This means that the VisiWinNET® syntax of the ItemID of the CoDeSys V2 driver and the CoDeSys V3 driver is different. Therefore the ItemID has to be adapted!



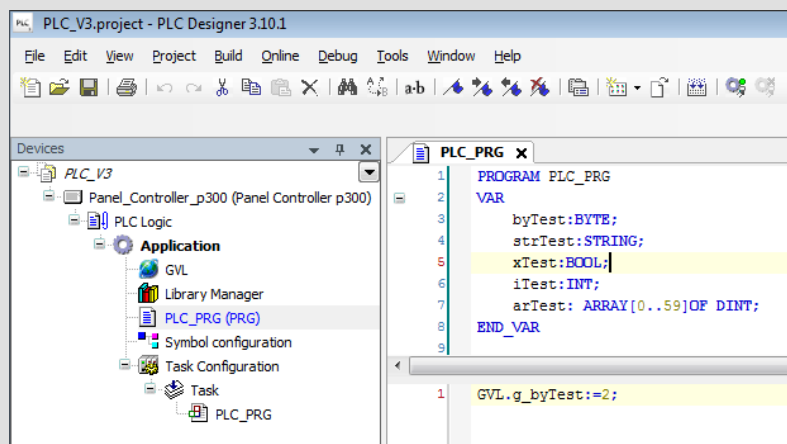
Global variables in PLC Designer V2

Migration by means of the copy/paste mechanism



Use of global variables

The symbol configuration of PLC Designer V3 only provides the global variables if these variables are used in the project.



Use of global variables in the PLC project

Migration by means of the copy/paste mechanism

4.5 Copy/paste of language switching, alarms, trends, recipes, user administration

The items of language switching, alarms, trends, recipes, and user administration can be transferred without any restriction or adaptation.

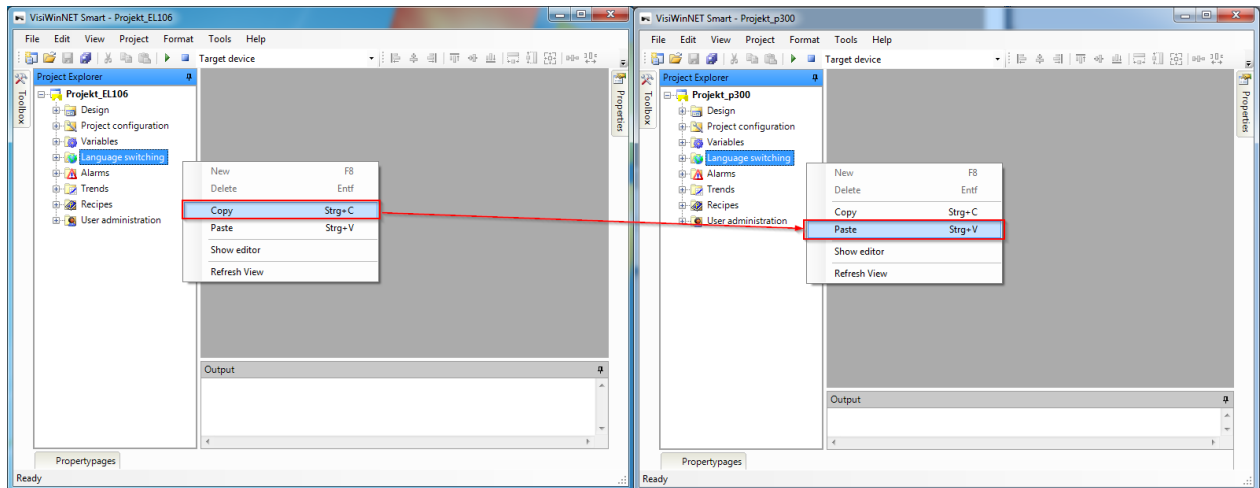


Abb. 12 Copy/paste shown by means of the example of language switching

5 Restrictions of the migration process

The following restrictions have to be taken into consideration for the variable migration process:

- Arrays must not start with non-zero values anymore!
- It is not permissible to use multi-dimensional arrays!
- Direct variable addressing is still not permissible!
- Enumerations are not supported!

If required, the PLC program has to be adapted.

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