

## LON binding with PG5 software

The command "Upload DBX" is necessary to keep/save the binding data in the S-Net (LON) configuration. After downloading a LON project into the PCD/PCS, the SNVT\_types can be read with any binding-tool (LONmaker for Windows / NL220)

The binding information (written by the LON binding tool) has to be uploaded from the PCD/PCS to the "Saia-Network LON Configurator" and must be stored in the PG5 project.

### **1. Procedure for storing the binding information in the PG5 project**

---

- 1 Download the prepared PG5 project to the PCD/PCS (incl. \*.fup /\*.lon).
- 2 Bind the network variables using the according binding tool.
- 3 Restart the PCD after the binding of the variables to and from the PCD/PCS. For restarting the PCD use e.g. the PG5 "Online Debugger". This restart procedure will copy the binding information from the Neuron chip to the RAM of the PCD (into a DBX).
- 4 Open the „Saia-Network LON Configurator“ and go online with the PCD ("Go Online" from the menu "Online"). While being online, select „Upload DBX“ (again from the menu "Online" of the „Saia-Network LON Configurator“).
- 5 The now in the project stored binding information can optionally be downloaded to a flash memory chip to the PCD ("Rebuild All..." before downloading the program).

### **Important remarks:**

- It is recommended executing the steps above after every added or removed binding from/to the PCD/PCS.
- For executing the "binding" it is not allowed using a Flash or EPROM memory chip as memory extension on the PCD (PCD1.M130 / PCD2.M120/M130). **Only RAM must be used!**  
For storing the program and DBX structure it is possible replacing the RAM with a Flash memory between step 4 and 5.
- Once the binding procedure is started no more modifications shall be done in the \*.lon file!  
Only exception: Update of a firmware modification.
- **It is recommended using the „Extended Memory“ when working with LON!**
- On a PCD/PCS system the binding information are always stored in a RAM DBX. Therefore the configuration will work as soon as the binding has been executed. However, the configuration can be lost after the Supercap or the Battery is discharged. Therefore it is recommended storing the binding information as according the procedure above.
- The functionality "Upload DBX" is not available for LON on xx7 controllers.