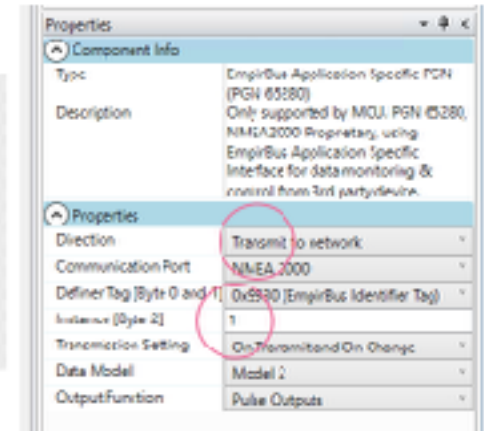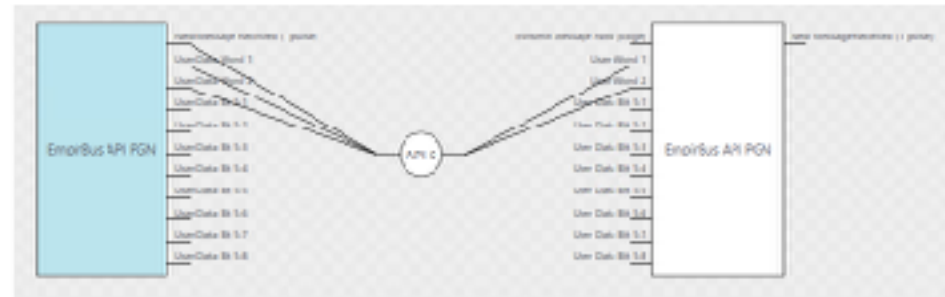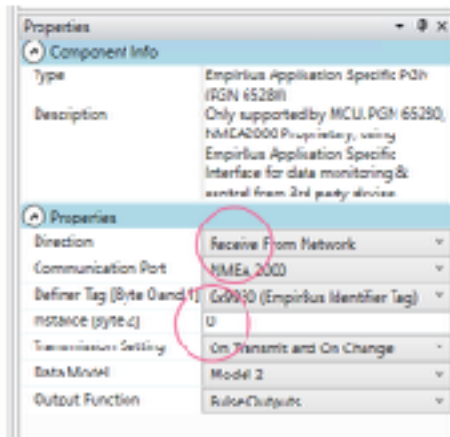# Dimmer and Switch control via EmpirBus API component

Example dimmer control via EmpirBus API component connected via portal to a DCU (Dimmer Control Unit). Dimming level for two dimmers is provided in User Data Word 1 and 2. Loading the value is triggered by "New Message Received (1 pulse)" with one pulse

The plugin relies on the "Data Model 2" to read and write the status of 2x dimmers with EmpirBus values 0..1000 and 8x switches 0|1 per instance of an EmpirBus Application Specific PGN component. The values of the two dimmers are expected in the 2x uword values of Data Model 2, while the status of the eight switches is expected in the 8x bit values.

The EmpirBus implementation has to use these instances in the EmpirBus Application Specific PGN component:

"Receive from network": X (e.g. 0, 2, 4, 6, ...)
"Transmit to network": X + 1 (e.g. 1, 3, 5, 7, ...)