Preamble

In the following experiments we use several sources as a Modbus Master for polling a single Modbus register:

- Temco T3-LB-WIFI-1kPT controller;
- Modbus Poll program;
- WAGO 750-881 controller.

For receiving packets from the Modbus Master, as a Modbus Slave, we use a PC with the program "DUNOVO Serial Mon": https://www.dunovo.com/

Experiment 1:

Pages 2-6: we are setting up Temco T3-LB and DUNOVO Serial Mon

Page 7: fixing the flow coming from the T3-LB controller

Experiment 2:

Pages 8, 9: we are setting up Modbus Poll and DUNOVO Serial Mon

Page 10: fixing the flow coming from Modbus Poll

Experiment 3:

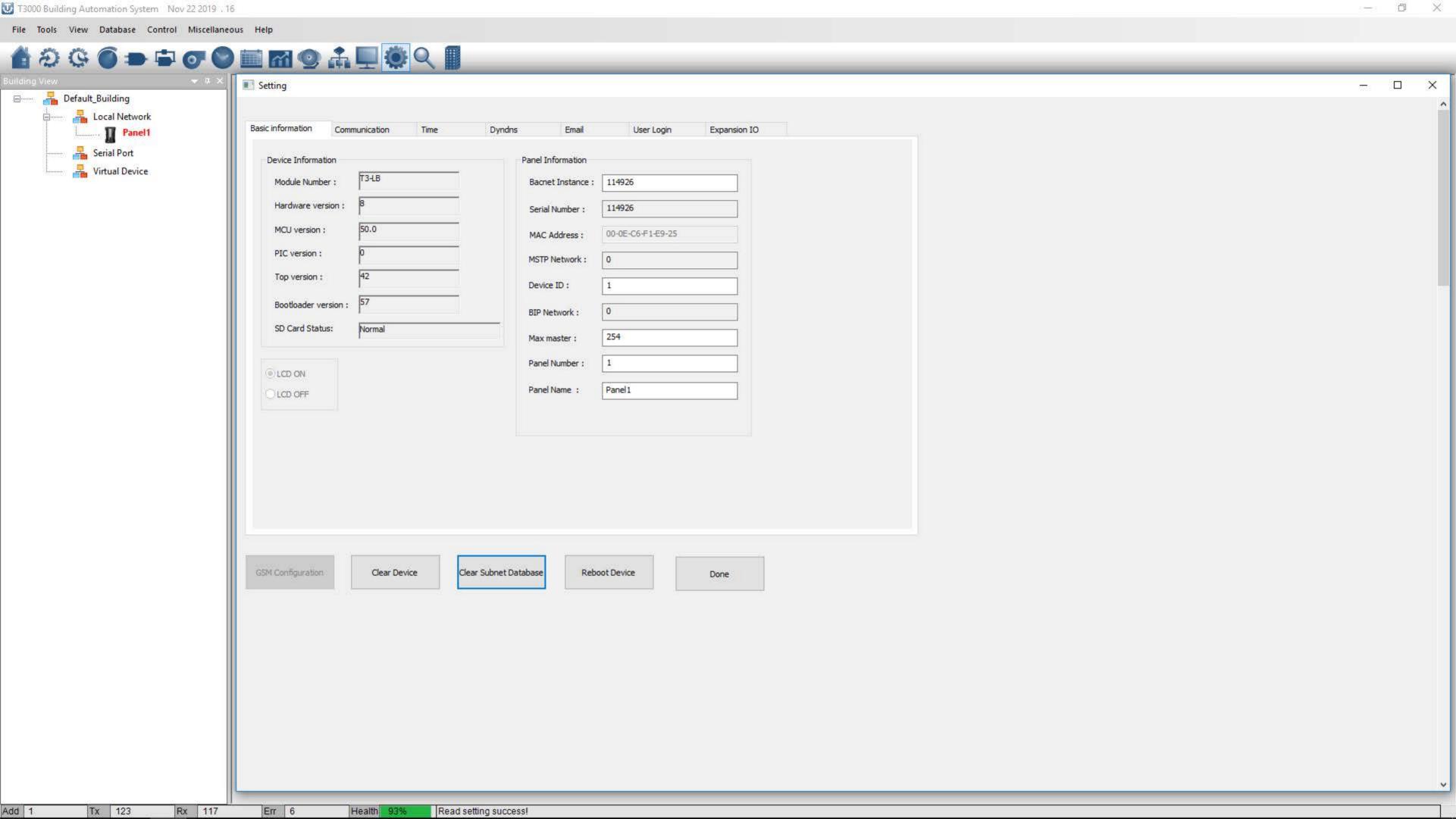
Pages 11-12: we are setting up WAGO 750-881 and DUNOVO Serial Mon

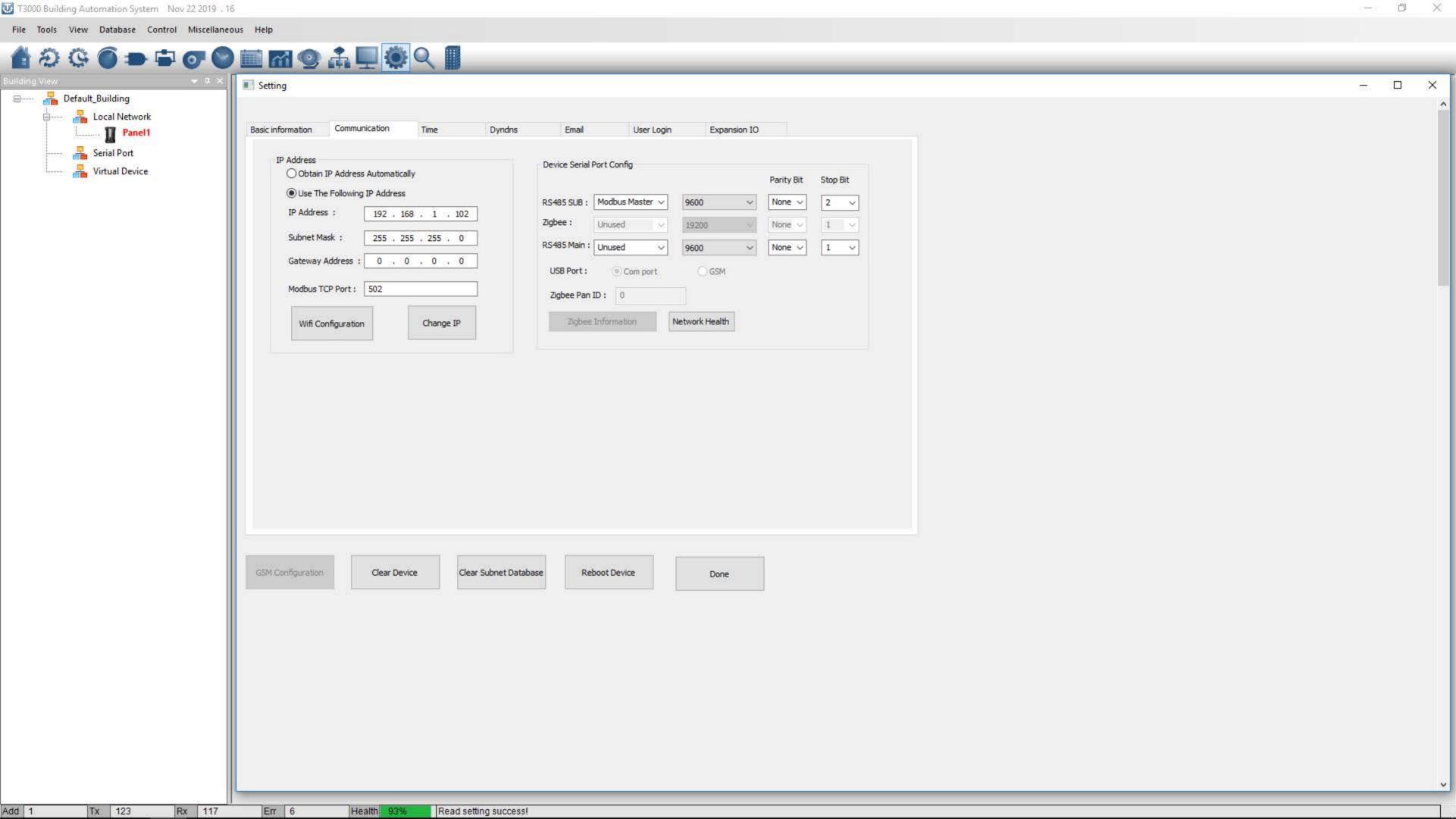
Page 13: fixing the flow coming from the WAGO controller

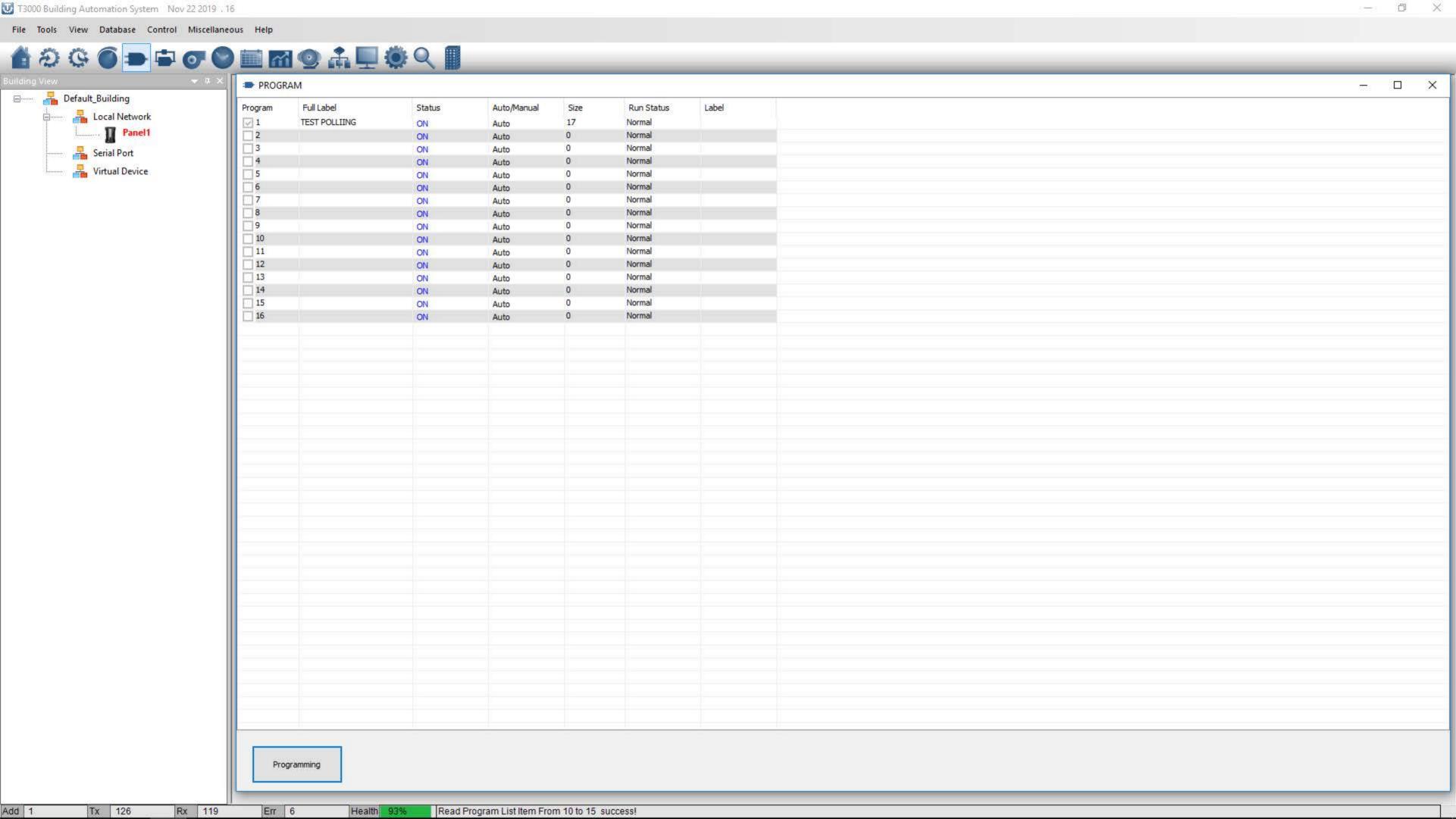
Summary: When we compare the results of three experiments, we see that the data in the requests from Temco T3-LB controller arrive randomly and the necessary structure for transmitting data in the form of packets is not observed.

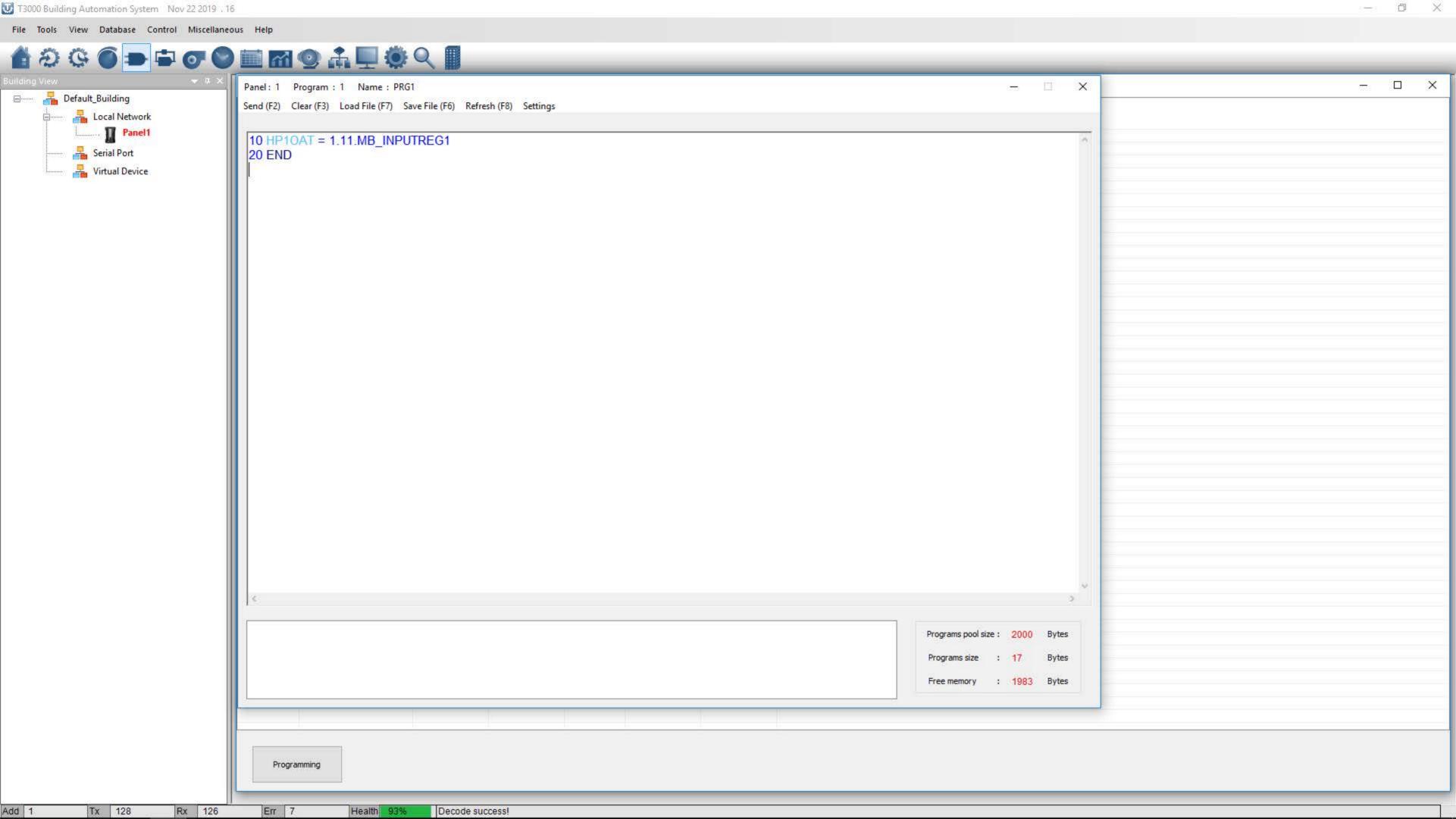
Required packet structure clearly seen in the survey from other sources.

The lack of a clear structure of packets in requests from T3-LB leads to rejection of packets by slaves, the inability to quickly receive data and, in some cases, causes hang slave devices.

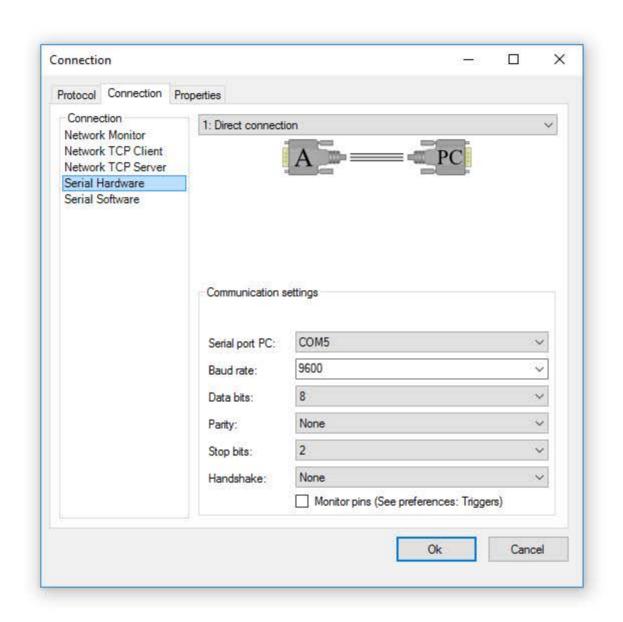




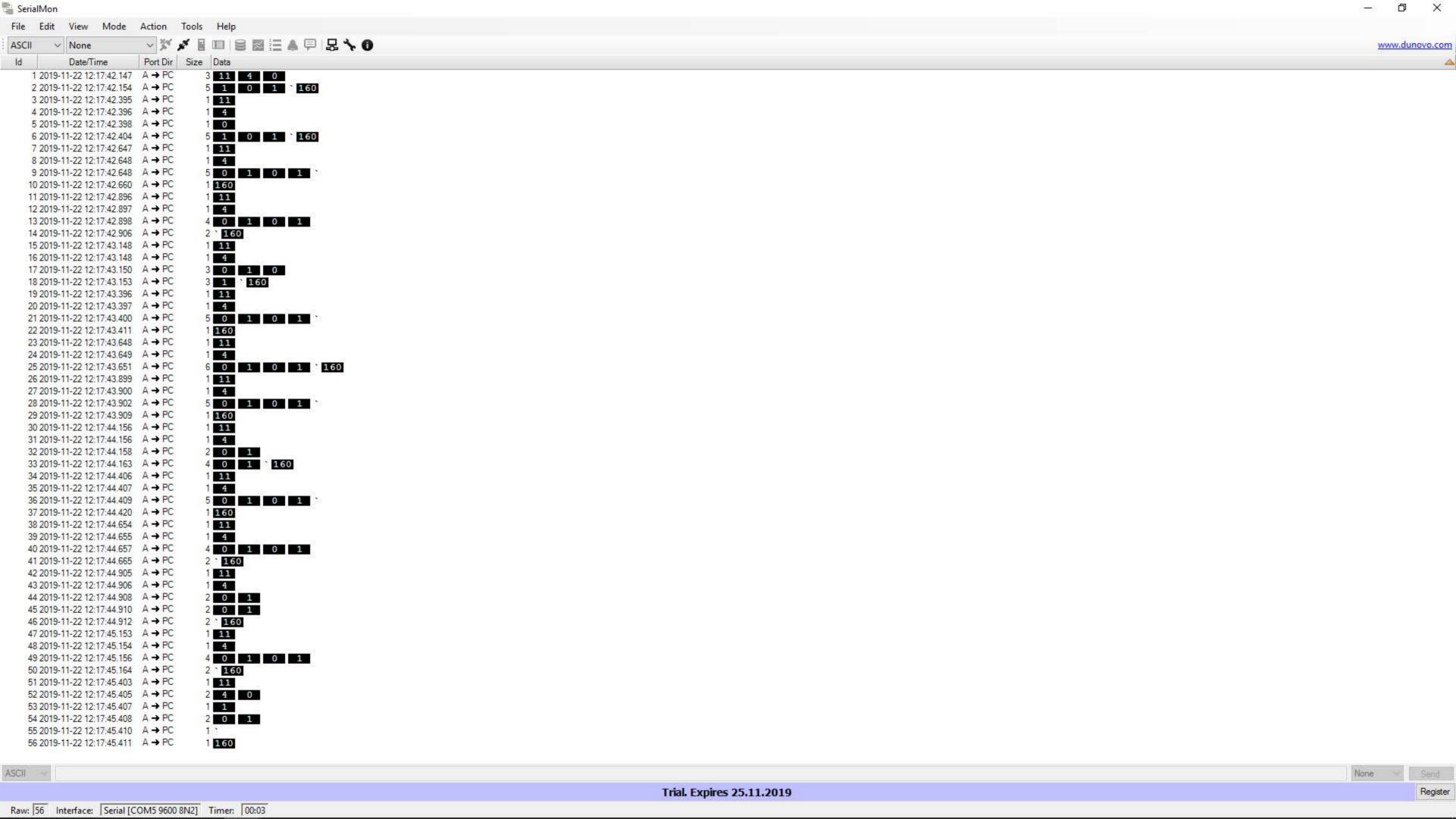




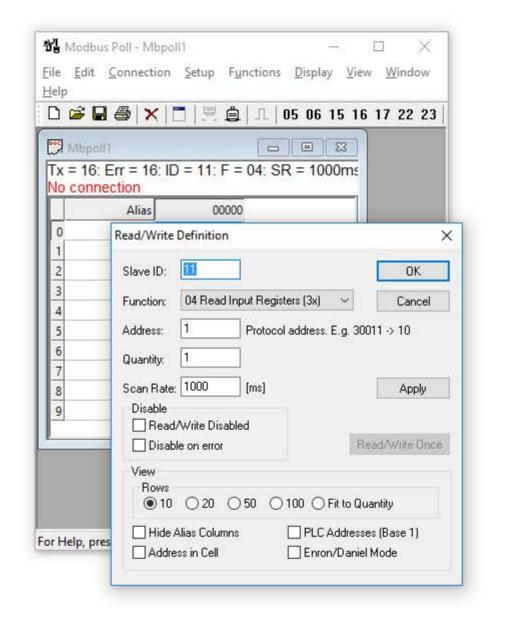




Raw: 0 Interface: Serial [COM5 9600 8N2]





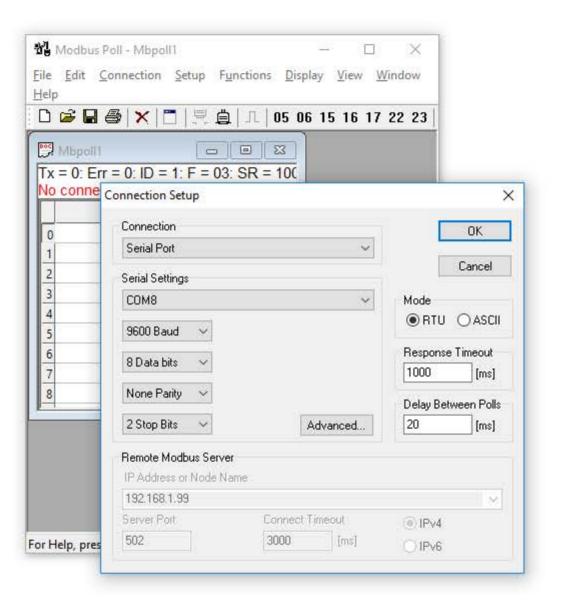


ASCII

None Sen

Register





Trial. Expires 25.11.2019

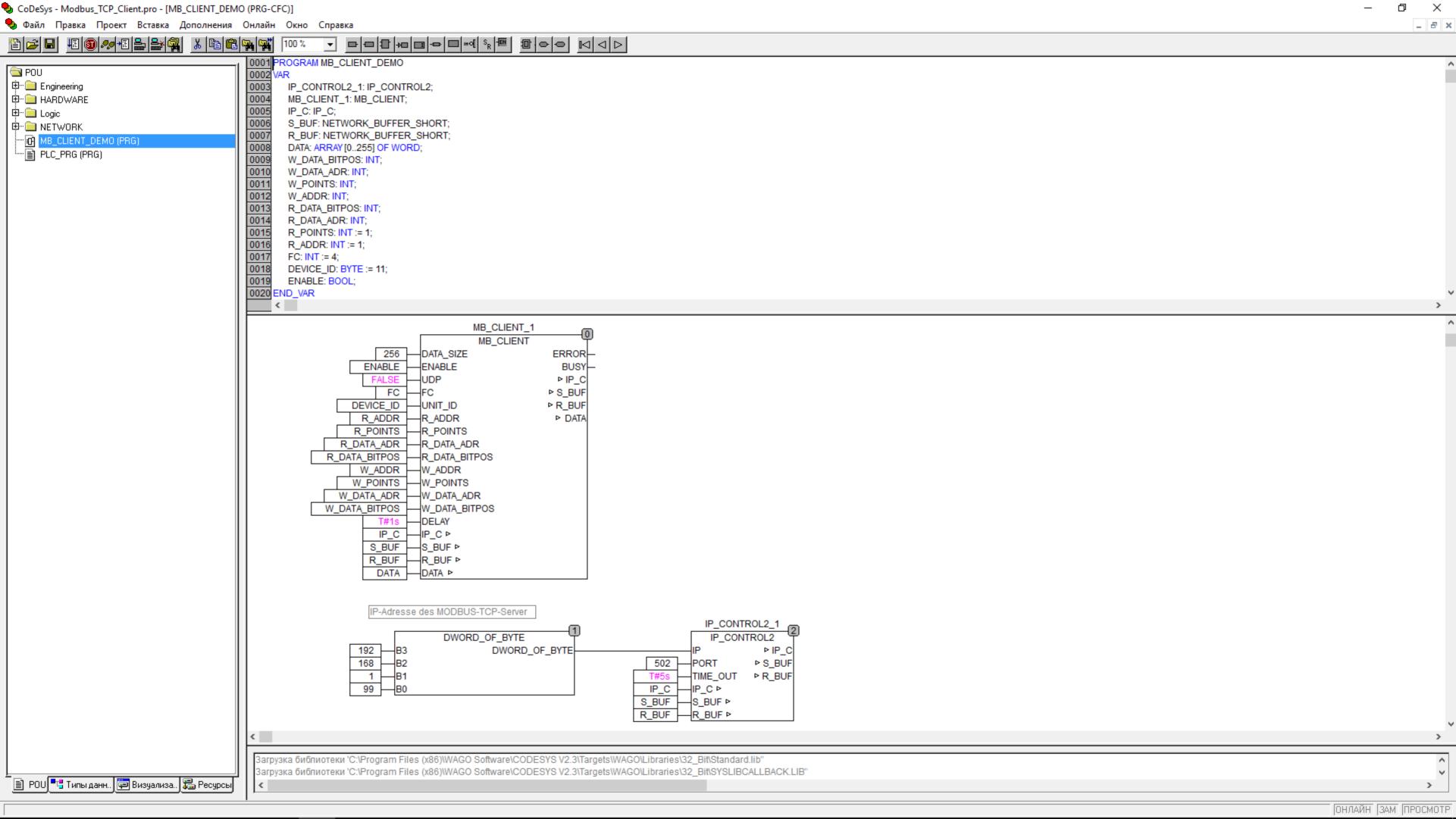


None

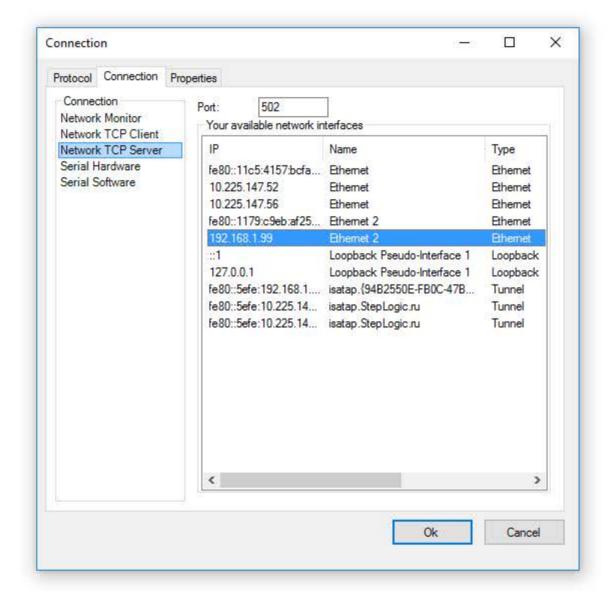
Send Register

X

www.dunovo.com







ASCII VIONE Trial, Expires 25.11.2019

Register

