

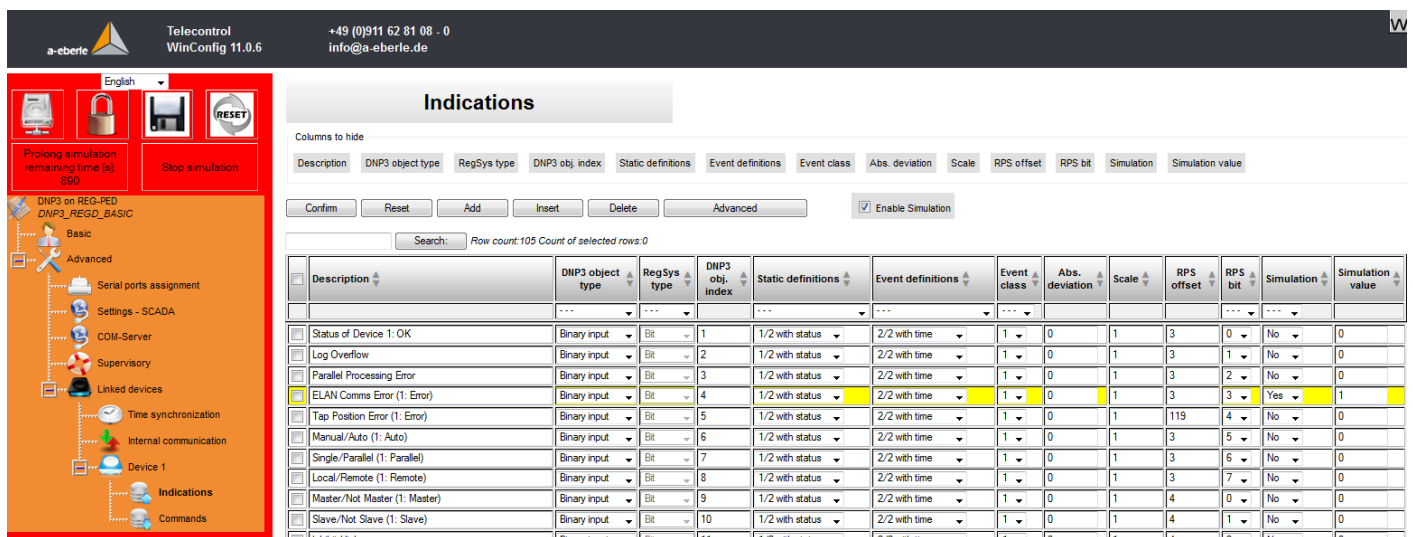
## WinConfig 11.06 Advantages and Improvements

This document provides a brief overview of the main new functionality included in WinConfig 11.06. WinConfig 11.06 is suitable for all REG-PS, as well as for all REG-PEs and REG-PEDs supplied since 2012, and includes all of the learnings from previous versions. In general, we would recommend upgrading to WC11.06 - if your device is supported. For further details about what WinConfig 11.06 offers, or for advice on how to determine the age of your REG-PE or REG-PED, please contact HVPower.

WinConfig 11.06 can be downloaded [here](#).

### 1/ DNP Simulation

Simulation of the DNP datapoints can be activated in online mode for the REG-PE or REG-PED - greatly simplifying SCADA testing. Both binary and analogue values can be simulated, and Simulation Mode remains active for 15 minutes (unless reset). Simulation of other protocols is not yet available.



The screenshot shows the 'Indications' screen in WinConfig 11.06. The interface includes a sidebar with navigation options like 'Basic', 'Advanced', 'Serial ports assignment', 'Settings - SCADA', 'COM-Server', 'Supervisory', 'Linked devices', 'Time synchronization', 'Internal communication', 'Device 1', 'Indications', and 'Commands'. The main area displays a table of indications with columns for Description, DNP3 object type, RegSys type, DNP3 obj. index, Static definitions, Event definitions, Event class, Abs. deviation, Scale, RPS offset, RPS bit, Simulation, and Simulation value. The table is currently showing 10 rows of data, with the 4th row highlighted in yellow.

Description	DNP3 object type	RegSys type	DNP3 obj. index	Static definitions	Event definitions	Event class	Abs. deviation	Scale	RPS offset	RPS bit	Simulation	Simulation value
Status of Device 1: OK	Binary input	Bit	1	1/2 with status	2/2 with time	1	0	1	3	0	No	0
Log Overflow	Binary input	Bit	2	1/2 with status	2/2 with time	1	0	1	3	1	No	0
Parallel Processing Error	Binary input	Bit	3	1/2 with status	2/2 with time	1	0	1	3	2	No	0
ELAN Comms Error (1: Error)	Binary input	Bit	4	1/2 with status	2/2 with time	1	0	1	3	3	Yes	1
Tap Position Error (1: Error)	Binary input	Bit	5	1/2 with status	2/2 with time	1	0	1	119	4	No	0
Manual/Auto (1: Auto)	Binary input	Bit	6	1/2 with status	2/2 with time	1	0	1	3	5	No	0
Single/Parallel (1: Parallel)	Binary input	Bit	7	1/2 with status	2/2 with time	1	0	1	3	6	No	0
Local/Remote (1: Remote)	Binary input	Bit	8	1/2 with status	2/2 with time	1	0	1	3	7	No	0
Master/Not Master (1: Master)	Binary input	Bit	9	1/2 with status	2/2 with time	1	0	1	4	0	No	0
Slave/Not Slave (1: Slave)	Binary input	Bit	10	1/2 with status	2/2 with time	1	0	1	4	1	No	0

### 2/ IEC61850 ed2

The IEC61850 protocol supports both edition 1 and 2, with a number of template profiles being available for each. Many other changes and improvements have been made to the IEC61850 protocol, including an APC datatype template and inclusion of the DBPOS control type.



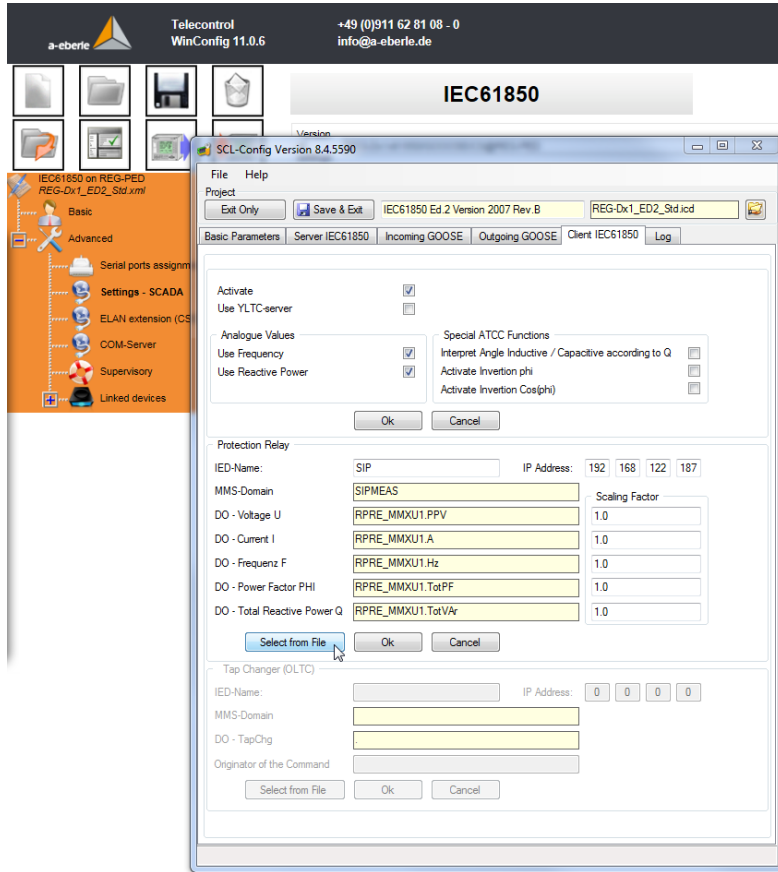
The screenshot shows the 'Add new settings' screen in WinConfig 11.06. The interface includes a sidebar with navigation options like 'Basic', 'Advanced', 'Serial ports assignment', 'Settings - SCADA', 'COM-Server', 'Supervisory', 'Linked devices', 'Time synchronization', 'Internal communication', 'Device 1', 'Indications', and 'Commands'. The main area displays a form for adding new settings from a template. The form includes fields for Board type, Protocol, Template edition, and SCADA template. The SCADA template dropdown is currently open, showing several options.

**Add new settings from template**

Board type: REG-PED  
 Protocol: IEC 61850  
 Template edition: Edition 2  
 SCADA template: REG-D(A) Ed 2 Standard Configuration with GOOSE V5.03  
 REG-DP Ed 2 Standard Configuration without GOOSE V4.0  
 REG-D(A)+REG-DP(A) Ed 2 Standard Configuration without GOOSE V5.0214.0  
 EOR-D Ed 2 Standard Configuration without GOOSE V5.02  
 POI-D Ed 2 Standard Configuration without GOOSE V2.0

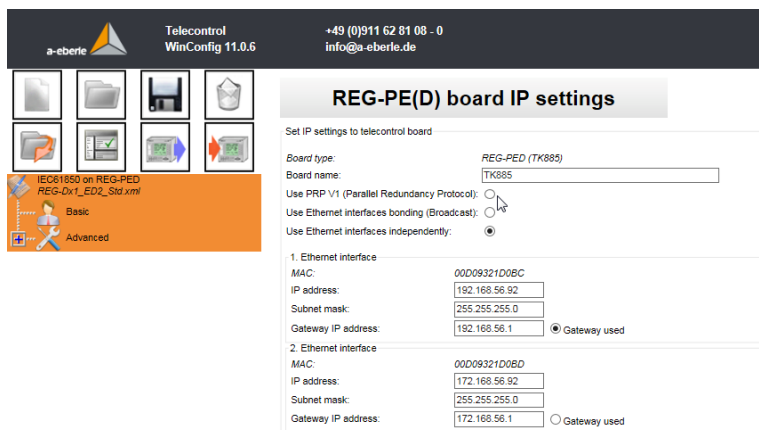
### 3/ IEC61850 Client

When using the IEC61850 protocol, it is possible to configure the REG-PE or REG-PED to act as an IEC61850 Client to obtain voltage regulation values and tap position information directly from the MMS data of other devices. The IEC61850 GOOSE Subscriber can also be configured to retrieve the statuses of switchgear etc from other IEDs on the substation network.



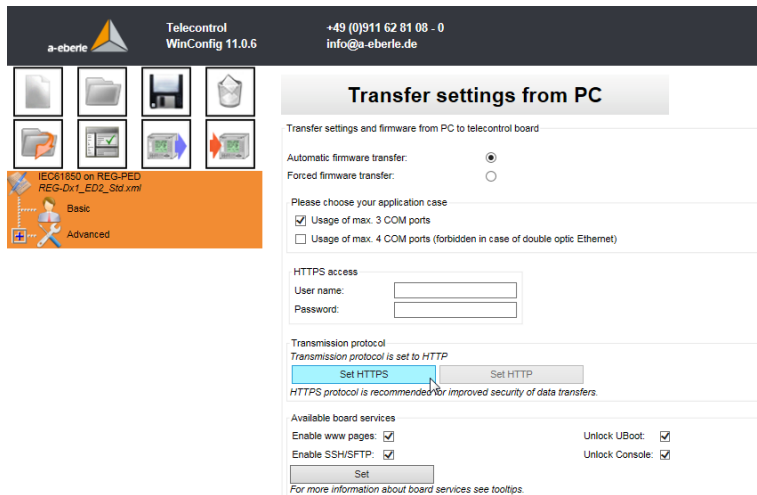
### Port Bonding and Parallel Redundancy Protocol-1

For the REG-PED, the Ethernet ports can be bonded for greater data reliability. Both ports share a common IP address and mac address (for GOOSE data), with one port being active while the other is in hot standby mode. PRPv1 is also supported.



## NERC Compliant Security

To improve data security, the various ways of accessing the REG-PE and REG-PED can either be disabled or secured (eg: HTTPS). By default, all means of access are enabled when WC11.06 is installed. Various locking actions can be undertaken individually and it is recommended that these be locked only after fully understanding the consequences of each action.

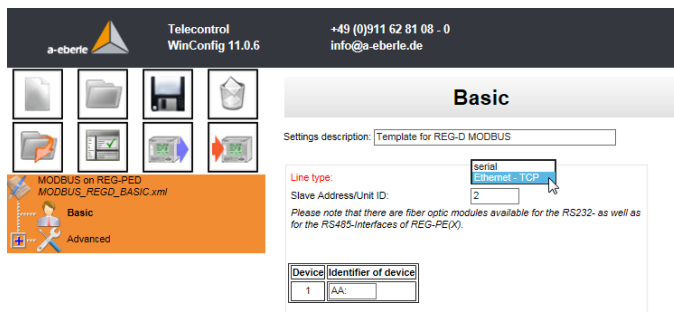


The screenshot shows the 'Transfer settings from PC' configuration window in WinConfig 11.0.6. The interface includes a sidebar with navigation icons and a main content area. The main area has the following sections:

- Transfer settings and firmware from PC to telecontrol board:**
  - Automatic firmware transfer:
  - Forced firmware transfer:
- Please choose your application case:**
  - Usage of max. 3 COM ports
  - Usage of max. 4 COM ports (forbidden in case of double optic Ethernet)
- HTTPS access:**
  - User name:
  - Password:
- Transmission protocol:**
  - Transmission protocol is set to HTTP
  - Buttons: Set HTTPS (highlighted), Set HTTP
  - Text: HTTPS protocol is recommended for improved security of data transfers.
- Available board services:**
  - Enable www pages:
  - Enable SSH/SFTP:
  - Unlock UBoot:
  - Unlock Console:
  - Set button
  - Text: For more information about board services see tooltips.

## Modbus TCP

As well as Modbus RTU, Modbus TCP is also available for the REG-PE or REG-PED.



The screenshot shows the 'Basic' configuration window in WinConfig 11.0.6 for Modbus TCP. The interface includes a sidebar and a main content area. The main area has the following sections:

- Settings description:** Template for REG-D MODBUS
- Line type:**
  - Dropdown menu: serial, Ethernet - TCP (selected)
  - Slave Address/Unit ID: 2
  - Note: Please note that there are fiber optic modules available for the RS232- as well as for the RS485-Interfaces of REG-PE(X).
- Device table:**

Device	Identifier of device
1	AA: <input type="text"/>