

About Telem SCADA features

SCADA demo: http://phobos.martem.ee/shr/SCADA/



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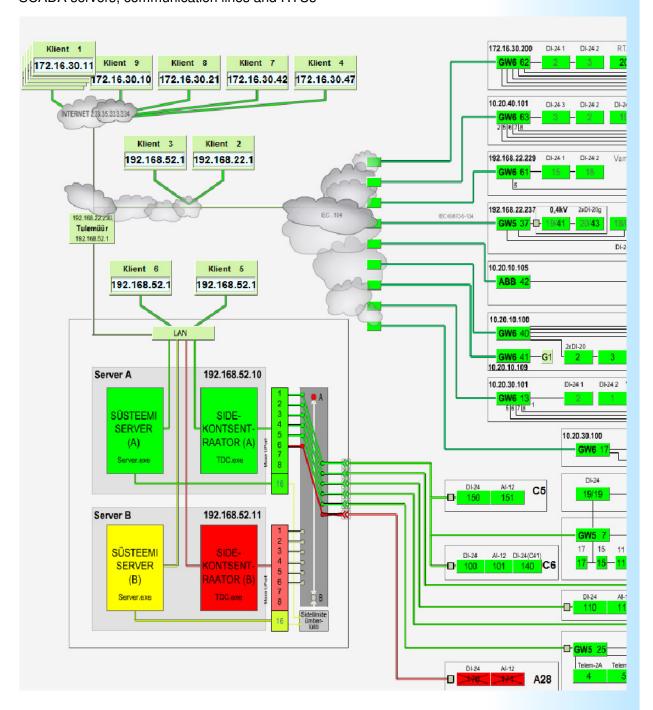
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1. Telem SCADA workstation

Any windows PC could be used as Telem SCADA workstation. To this PC must be installed Martem's SCADA client.exe program and Adobe flash player. The count of client workstations is not limited and they may be placed anywhere, in the local network or wherever the Internet goes

Example:
Systems status schema displaying clients (workstations),
SCADA servers, communication lines and RTUs

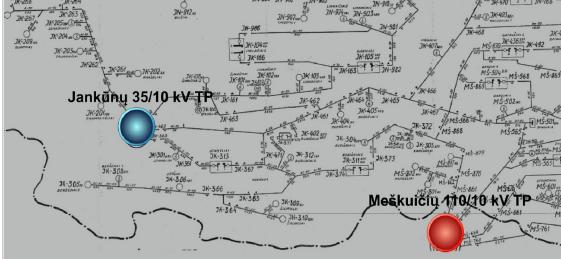


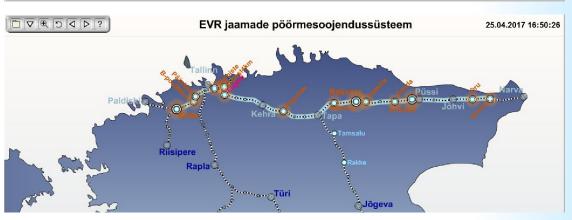
2. Adding substations to map

The SCADA System's usually starts with a diagram that presents substation on the map. The symbols of substation could be freely designed and are used as links to substation diagrams (schemas). The maps format could be png or jpg.

Examples:



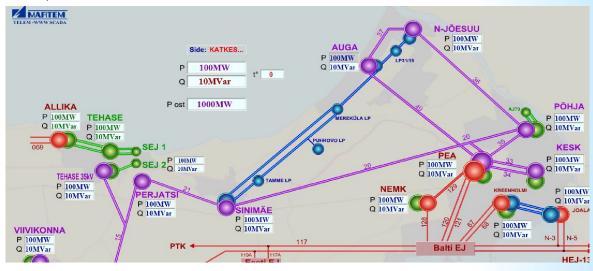


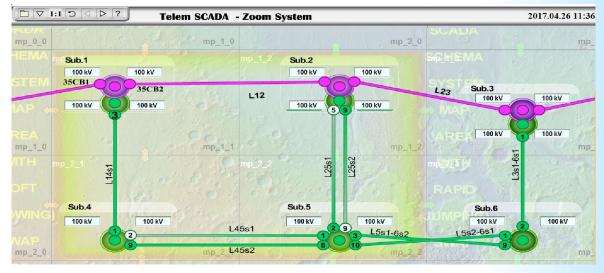


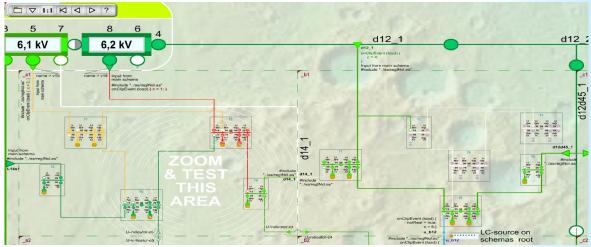
3. Power grid diagram

Any schema (diagram, drawing) could be designed freely, using any Adobe Flash feature. Schemas symbols can be taken from symbols library, other shemas or design by user, if needed.

Examples:



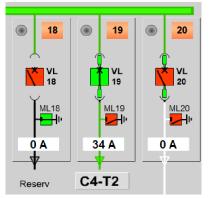






4. Line coloring system

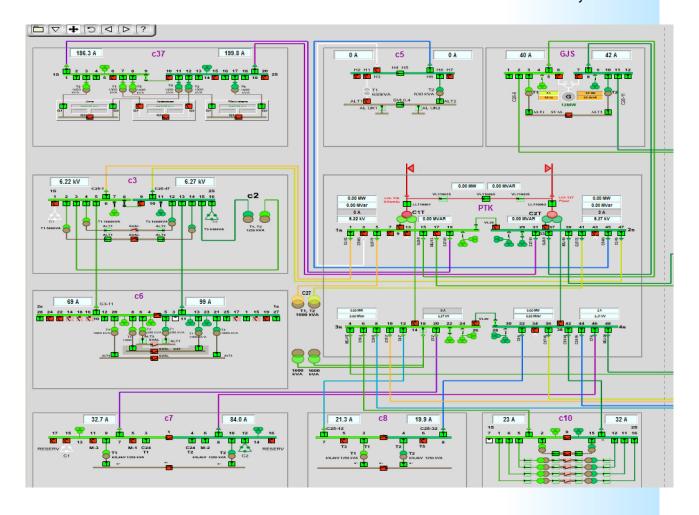
Telem SCADA Schema system includes line coloring system for changing color of schema lines and other symbols to display voltage status of electric circuit.



Example 1:

- 1. Feeder 18 status GROUNDED
- 2. Feeder 19 status NORMAL VOLTAGE
- 3. Feeder 20 status UNDEFINED (DISCONNECTED)

Example 2:
Using line coloring for lines between substations.
Permit an overview of the whole system's situation

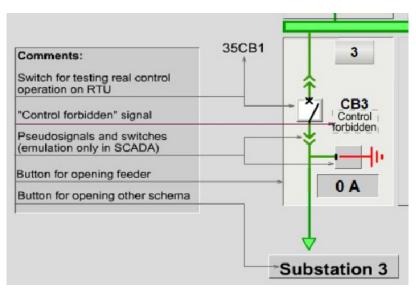


5. Blocking of control operations

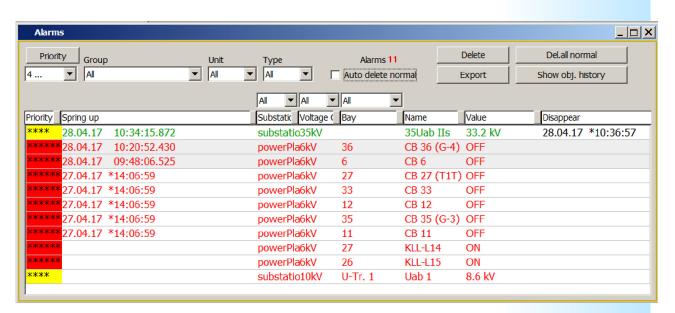
Telem SCADA allows to set up rules (formulas) for bloking of control operations. For bloking control operation user can create logical formula from any signals of system

Example:

if the earth switch is on (on this schema or in the other end of line) the control operations of any switches could be blocked.

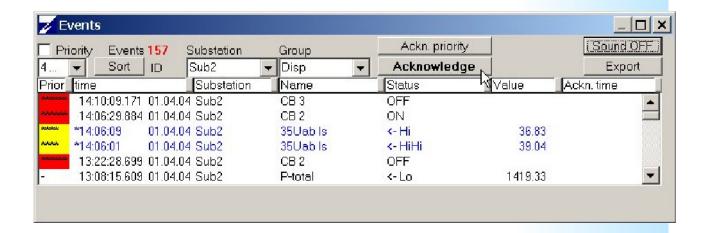


6. Alarms

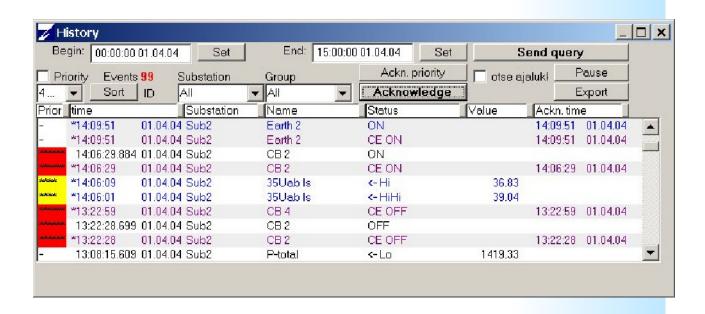




7. Events

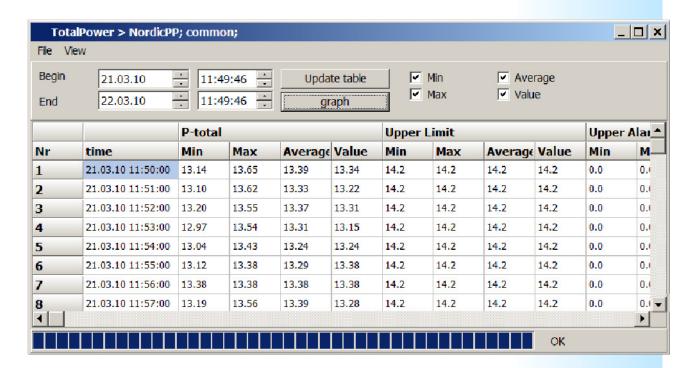


8. History





9. Tables

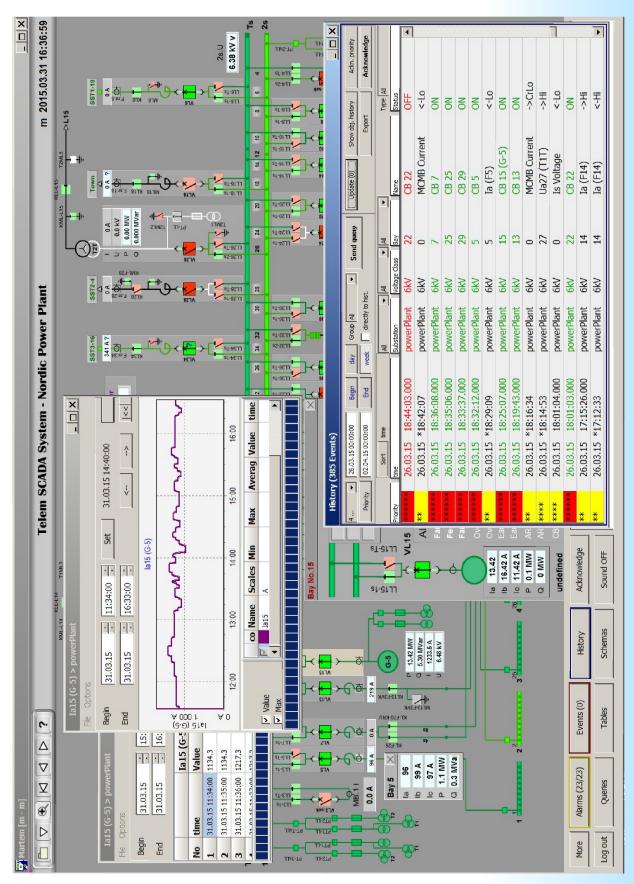


10. Trends





11. Screen example



12. Reference

TELEM-SCADA

CENTER Port of Tallinn Iru Powerstation **TALLINN** Fortum-Viimsi Sadam Tamm-troll Veskimetse Estonian Railway substations Estonian Railway Switcboard Heating VKG - NARVA Tallinna tramm-troll Fortum (Läänemaa & Viimsi) VKG (K.-Järve) VKG (Narva Electricity Network) Veskimetsa Substation (Tallinn) Papiniidu Substation (Pärnu) Limestone careers Ziemelu Elektriskie Tikli LatvEnergo (ZET) Valmieras ETR Cesu ETR Limbazi ETR **ELECTRIC ENERGY NETWORKS SCADA** Smiltene ETR <mark>→</mark> MAŽEIKIAI CONTROL CENTRES: Piebalga ETR TELEM SCADA SYSTEMS **TELEM SCADA SYSTEMS** HUANIA WITH RESERVATION TELEM SCADA Substation control centres Siauliai Electricity Network OTHER SCADA CENTRES: Mazeikiai Electricity Network TELEM SCADA Raiway Switchpoints Heating TELEM SCADA HEATING SYTEMS Joniskis Electricity Network VILNIUS Klaipeda Heating Station

LOCATION OF TELEM SCADA SYSTEMS

