

Energy:

Remote controlling medium-voltage stations

An electricity distribution company decided to implement a control and remote management system for its medium-voltage stations using a SCADA system. Power, voltage, current and $\cos \phi$ measurements had to be made using a Ducatti instrument and then make the data available to a SCADA. Having up-to-date information, they would be able to control remotely the start and stop of motorized disconnecting switches and correcting capacitors.

They originally projected the installation of several PLCs: one master PLC had to be located at the company's control center and other slave PLCs, to be installed at each station to be controlled.

When they requested a solution from Exemys, we introduced them our EGW1-MB converter (Modbus TCP to Modbus ASCII/RTU Converter). We proposed the following solution:

At each distribution station, the serial output of the Ducatti instrument was connected to the serial Modbus port of our EGW1-MB converter. Switches and capacitors were controlled with the SCADA, which sent Modbus commands to the embedded inputs and outputs available in our converter.

The Ethernet links between the master PLC and our converters were done through a virtual LAN running over a cable modem access, while the link between the master PLC and the SCADA was established using the corporate Ethernet network.

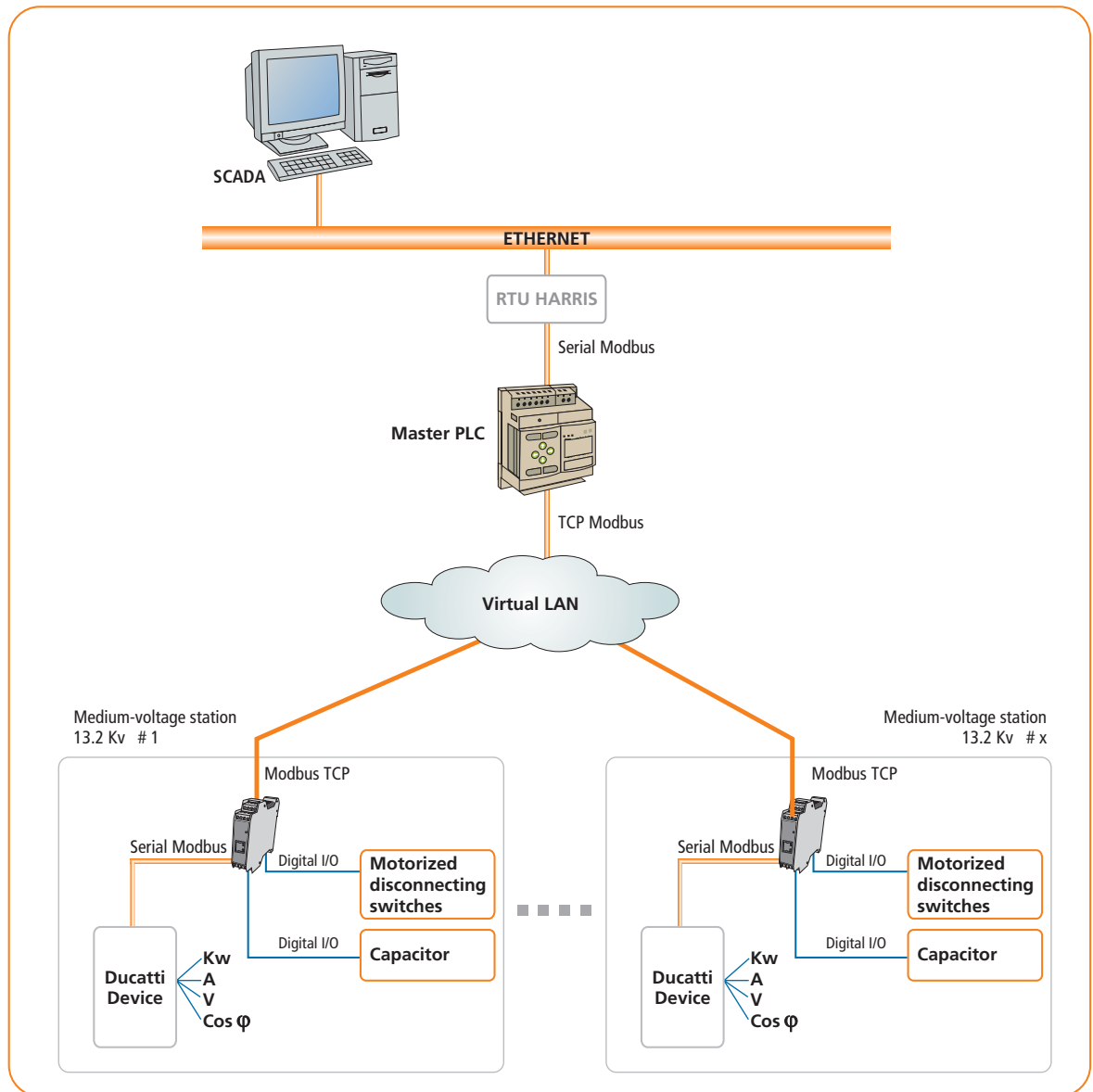
Our customer emphasized two important features found in our solution:

- 1) It fully adapted to their technical requirements**
- 2) It allowed them to reduce the costs over 70%.**

These features were highly appreciated, so they decided to replace every slave PLCs from the original project with a converter.

Benefits

- Reduced implementation costs.
- Global system administration capability, since it takes advantages of the underlying TCP/IP technology.
- Lower maintenance costs.



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