

Remote Management of Protection Relays

Need:

Edenor Electric Power Co. entrusted us with the remote management and administration from their WAN network, of more than 4000 protection relays existing in the transformer substations.



Equipments



EXEMYS - SSE232-ST

Solution:

The protection relays have a RS232 serial port, and also, all EDENOR substations have a connection to their TCP/IP WAN network, by means of Ethernet connections.

The previous conditions were ideal to use Exemys' 4-port SSE232-ST converter. On one side, the protection relays were connected to each one of the converter's serial ports. On the other side, the Ethernet port was connected to the company's WAN network.

Each brand of protection Relay has its own management software, as a result, the decision was to use Exemys' ECPR (Exemys Com Port Redirector) software, by which the information that usually circulates through the RS232 serial port can be captured and then redirected towards a TCP/IP connection, thus reaching the converter.

Finally, a decision was made to design a software to select the substation where a particular protection relay to be managed is located.

