

RTU560 Remote Terminal Unit

Redundancy Concept



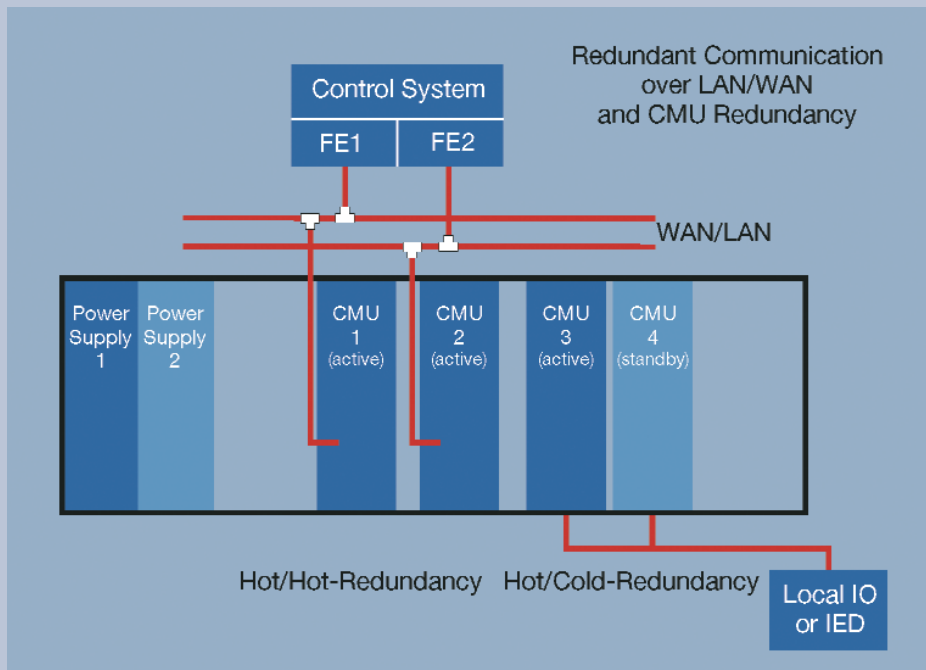
Overview

It is important to maintain the access to stations in energy transmission and distribution networks. RTU560 manages this requirement by providing a sophisticated redundancy concept offering the following features:

- Redundant communication lines or links
- Redundant communication units (CMU)
- Redundant Power Supply

With this concept the RTU560 fulfills the highest availability requirements!

Example of a redundant solution



Benefits

- Excellent reliability in performance and communication
- High reliable remote control of important substations
- Reduction of service and maintenance cost
- Scalable redundancy concept



Technical features

- Redundant communication lines or links
Communication via 2 communication lines in a parallel mode (multi host with all available protocols) or in an active/standby switchover mode (redundant line/network with IEC 60870-5-101/104)
- Redundant CMU performance
2 sets of CMU boards in an active/standby switchover mode
- Redundant power supply
2 redundant power supply boards for the supply of the communication subrack.

Due to modular architecture of the RTU560 it is possible to use parts or combination of the redundancy elements.

Protocol	Communication Redundancy	Communication and CMU Redundancy
DNP3, RP570/71, MODBUS, ...	Multi Host Communication	Multi Host Communication with CMU Redundancy
IEC 60870-5-101	Redundant Line	Redundant Line with CMU Redundancy
DNP3 over LAN/WAN	Multi Host Network Communication	Multi Host Network Communication with CMU Redundancy
IEC 60870-5-104	Redundant Host Network Communication	Redundant Host Network Communication with CMU Redundancy

Further information

Function description RTU560 1KGT 150 541 V001 1, chapter 4

References

- Terna (Italy)
- Qafco (Qatar)
- TWL Ludwigshafen (Germany)
- DOW Chemical (Germany)
- Stadtwerke Hannover (Germany)



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