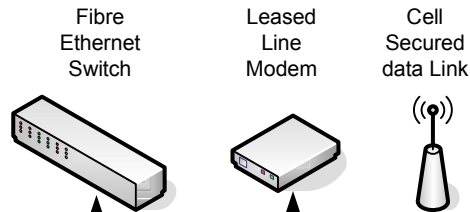


Remote connections

Connect to **Modbus** and convert into **DNP3, IEC60870-6/T2**. Connect to **one or more remote control center** (primary and Back-up). Retrieve your protection curves and events from a remote engineering office with **NERC compliant** equipment.



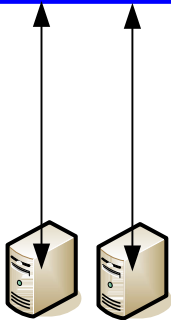
Communication redundancy

Total communication redundancy. Have your primary connection on an Ethernet port and your secondary connection on a serial port or a secured cellular data link with hot stand-by from one port to another.

Hot stand-by gateway architecture allowing **no single point of failure** design from control center to the Generating Stations.

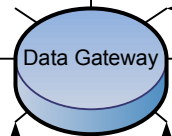
Single or Redundant Servers

Redundant Server technology, using standard servers or specific fault tolerant models. Latest SCADA operating on windows 64bits or 32bit technology. OPC U-A(Unified Architecture) connection technology for Historians, SQL database handling. **Maintain your entire SCADA with no downtime.** Access your data through internet respecting **NERC CIP-004 and CIP-007**. Connect with multiple clients. **GPS time stamping technology** embedded in your alarming and your event logging to 100us accuracy. Real time response is not affected by sequential event handling.



Data Handling Gateway

Database server allowing SQL **Reduce significantly your outage requirements** for RTU upgrades. Keep your existing RTU while the new one is being developed and installed and operation is satisfied, all this while your original system is still in function. Connect to your gateway using OPC facilities. Use automatic database conversion tools and reduce daily maintenance.



Generator Protection

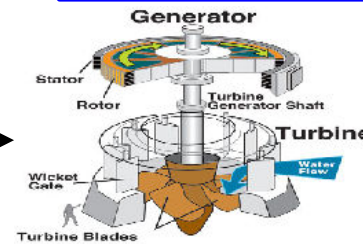
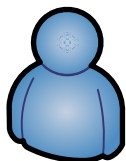
Protection design and complete integration for Station Service, Transformer, Generator, and line protection coordination and integration. **Redundant Electrical and Mechanical 'A' and 'B' protection. Secure hardware shutdown sequences. Analyse relay data locally or remotely through NERC approved cyber links.**

Generator Control

Easy Grafcet start and stop logic. Alarm annunciating start and stop failed steps will help reduce trouble shooting by maintenance personnel. (pictures, text and illustrations). Download in your control system while unit is running. One program fitting in all your units simplifying version and back-up procedures. No logging of changes to keep unit equal. Parameters adapt automatically to the Unit PLC you are downloading into.

Hybrid Classic hardware components

Hybrid technology was developed using classic Lock out relay technology with modern multifunction relay and Programmable Logic Controllers. Download your program while unit is running and still fully protected.



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