INTEGRATED CENTER SOLUTION

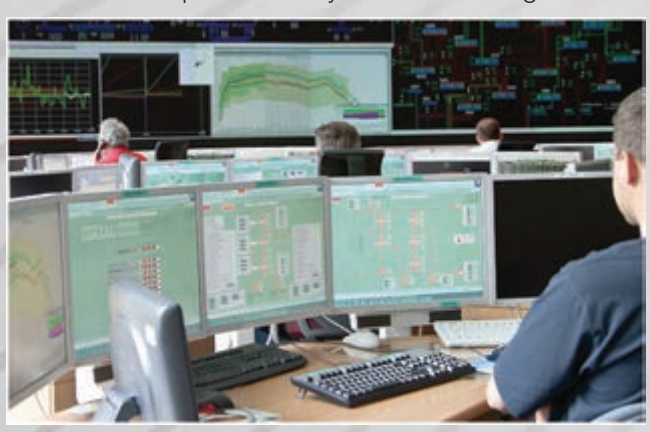
PROLAN

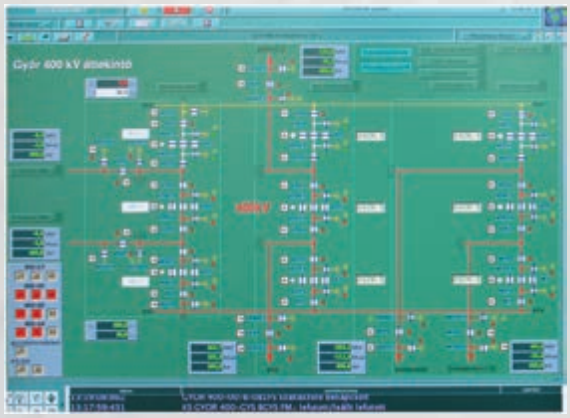
Prolan Ltd is the **main SCADA provider of the energy market in Hungary**. We delivered over 20 years several SCADA systems for power distribution companies, railway electrification and the Hungarian Transmission System Operator Co. Ltd. (MAVIR).

For many years the main goal was to control the substations remotely from the operational centres

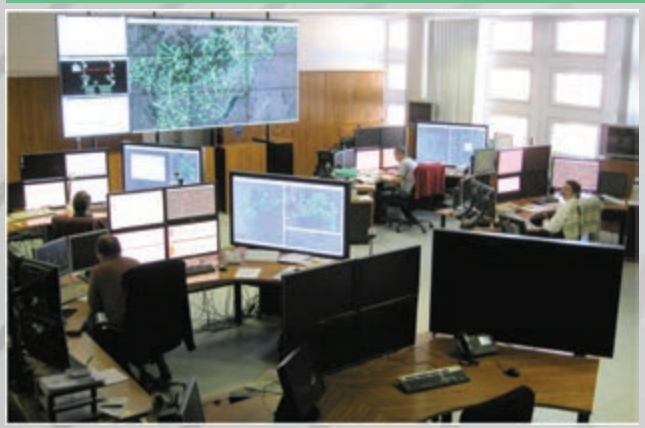
Further development of Prolan's **HAM** MMI led to **ZEUS**, that is a SCADA extended with basic DMS and WFMS functionality implemented as follows:

- A single computer version of **ZEUS** operates in hundreds of substations
- More complex ZEUS systems consisting of hot-standby servers and multiple workstations were delivered to several regional dispatching centers of EdF Démász, 5 control centers and the operational centre of MAVIR, the power supply dispatching center of the Plovdiv-Svilengrad railway.





In the last decade the main focus of development was controlling medium voltage electric networks using single-line and map-based screens



IDCS

The Integrated Dispatcher Center Solution is our brand-new integrated SCADA/DMS/EMS/WFMS system covering large areas of control used by RWE ÉMÁSZ since March of 2012.
The DMS/EMS software package was developed by Telvent DMS

In the near future the main task for electricity companies will be to integrate into the SCADA system the supervision of low-voltage networks: medium/low voltage transformers, industrial parks and households. The ACCS system from Prolan is capable of addressing these challenges

ACCS: The Advanced Control Center Solution is our most recently developed product covering the DMS/OMS and EMS functions with third-party software solutions.

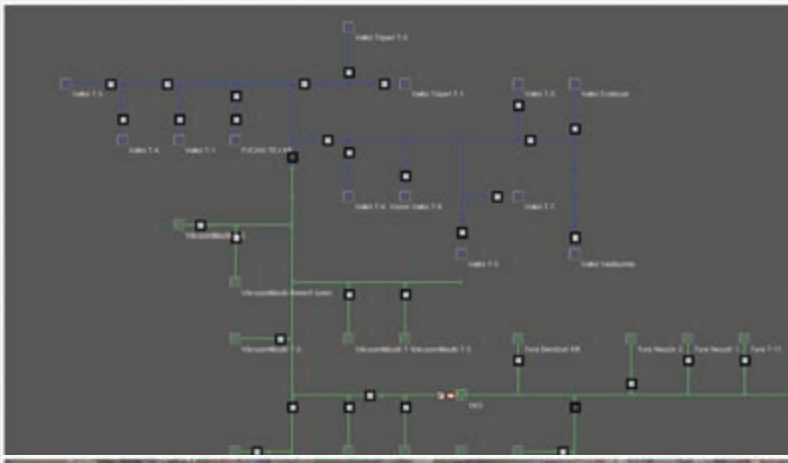
Prolan Ltd entered into an open partnership contract with ORACLE in order to apply its DMS/OMS package.

INTEGRATED CENTER SOLUTION

Nowadays the major part of operational control is supported by informatics. A large variety of solutions from a host of diverse producers **differ** both in graphical interface and operational approach. The same information is stored in multiple places and therefore the repetitive input causes inconsistency, which requires a huge amount of effort to synchronize the data within the system. One of main design criteria's of the new control centre from Prolan is to avoid these disadvantages:

- Several functions (SCADA,DMS,WFMS,OMS, EMS,BI) are implemented
- Prolan's solution can be easily integrated with 3rd party systems.

The **same graphical interface** provides the operation of all functions and every piece of data is stored in **one place**. This way inserting the data is more efficient and reducesthe probability of errors.



The new SCADA solution is **model-based,** unlike the former, scheme-based applications. New functions can be developed based on the model of the controlled technology. The main source of the network-model is the GIS database, which can also be edited manually. The main functions of the system:

- Server-client architecture with strong considerations for IT security
- Data model based on the supervised technology, not the scheme
- Suitable for operation of Multi Utility centers
- Scalable on the server side, redundant, designed for high-availability, secondary control center can be configured if necessary
- Java-based platform-independent graphical user interface; modern, user-friendly operation
- Serving large number of client workstations at the same time for dispatchers and managers having different tasks and responsibilities
- Graphical user interface for multiple high-resolution screens
- Refreshing data without stopping the system
- Functions implemented as separate intercommunication modules to provide a consistent user interface
- Data input originates from the GIS system either at configuration time or during daily operation

PROLAN

Prolan Process Control Co.
H-2011 Budakalász, Szentendrei út 1-3.
Hungary
Phone: +36-20/954-3100
Fax: +36-26/540-420
email: info@prolan.hu
Web: www.prolan.hu