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IT Solutions

magus AssetPulse

System for data collection, supervision, and storage that simplifies equipment maintenance and provides process analyses

Systematization of process and technical data is an essential prerequisite for digitalization and makes power system maintenance and operation more efficient. The goal is to enable innovative solutions for asset management, equipment monitoring and system analyses.

Deficiencies in existing power systems:

→ Large amounts of mismatched data
→ Lack of correlation in business processes
→ Inaccurate or mismatched data, lack of data synchronization between databases
→ Unnecessary multiplication of processes and documentation
→ Delayed fault detection
→ Maintenance oversights due to a lack of specialized employees

Main advantages of using the Centralized analytical system:

→ Easier and more efficient maintenance, monitoring, and event analysis in the system
→ Usage of algorithms for automatic detection of faults, disturbances, and failures
→ Automatic collection and storage of data for system disturbances
→ Event classification according to faults caused by disturbances in the system or during maintenance
→ Visualization of system elements and events in GIS maps
→ Easier maintenance switch from periodic to preventive
→ Technical data and test protocol storage
→ Investment planning according to equipment performance

↓ Analyzing faults and events using automatically collected data from relay protection devices (COMTRADE, signalization & measurements)
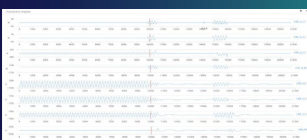
↓ Centralized supervision of primary & secondary equipment through data visualization for easier maintenance

↓ Displaying meteorology data in correlation to recorded faults and events from the system and to power generation from renewables
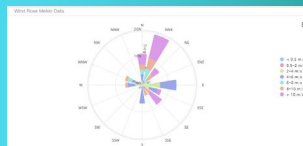
↓ Customized automatically generated reports with simple data export

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Applicable to:

↓	↓	↓	↓	↓
Transmission System Operators	**Distribution System Operators**	**Electricity generation**	**Power systems in Industrial facilities**	**Railway power systems**

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Relay protection and control

Communication equipment

Process network

SCADA

IT equipment

Auxiliary systems

Business network

AMR - PQM - Business applications

Users

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