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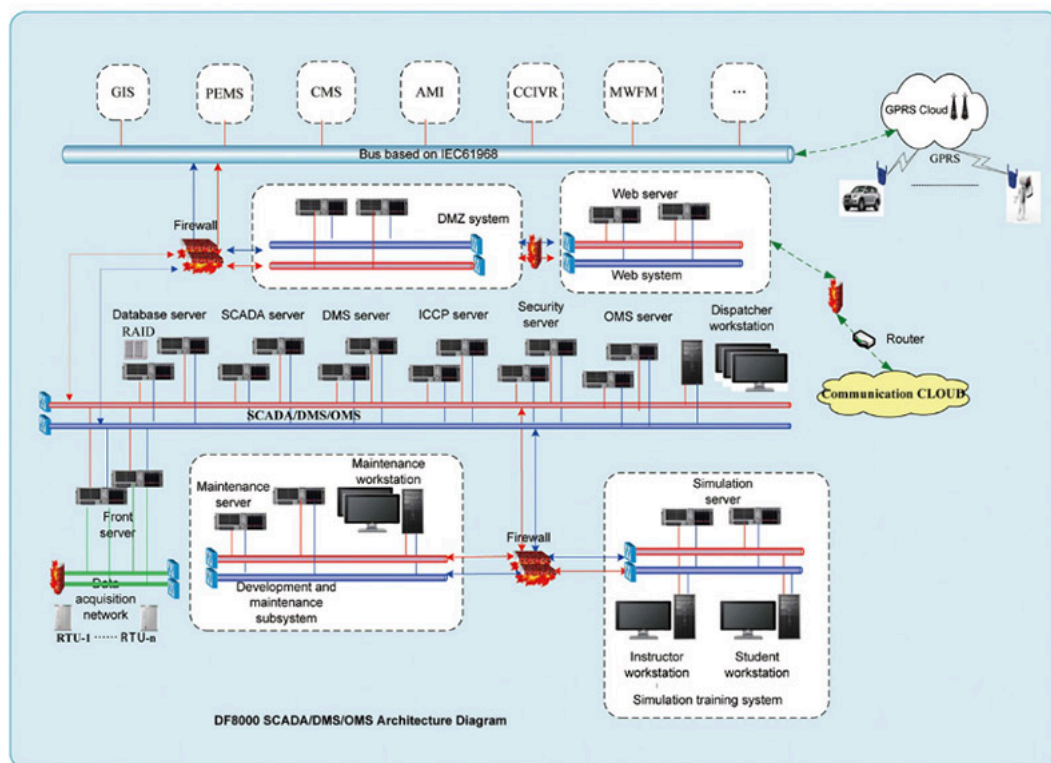
Intelligent Distribution System Solution

Intelligent Distribution System Solution

DF8000 SCADA/ADMS/OMS advanced distribution management system

System overview

DF8000 SCADA/DMS/OMS advanced distribution management system is designed for the smart power grid. It is based on real-time application, centered on operation and management, focusing on the business process of distribution network, integrating data acquisition, real-time monitoring, fault processing, appl production management, and enabling the full automation of distribution network monitoring and dispatching, production, operation and service. With the integ power supply enterprises, their operation and management level of power distribution network are effectively increased, and their power supply reliability and satisfaction are improved.

System architecture diagram

DF8000 SCADA/DMS/OMS Architecture Diagram

Features

• Based on distributed acquisition and monitoring technology, supporting massive RTU/FTU/DTU/FPI and terminal devices access.

• Integrated design based on the ESB (Enterprise Information Bus), enabling interacting with any third-party system in data and work flow through standard in adapters.

• Based on topology, real-time information and trouble call information from customers, enabling the comprehensive fault diagnosis, fault location and fault ana

• Fault processing based on business process and enabling fault location, fault isolation, fault restoration, personnel dispatch, work-order management, etc.

• Supporting the mixed hardware and operating systems, i.e. ensuring system security, usability and scalability while fully protecting customer investment.

• Powerful protocol library technology and enabling quickly accessing to various standard protocols, and rapidly customizing and developing non-standard pro

• The network platform is based on the distributed application trigger mechanism, enabling the free deployment and free migration of services, and, under extr achieving all system functions with only one server.

• Achieving seamless integration and interaction with GIS system.

• Supporting the integration with microgrid and new energy, such as solar energy and wind energy.

Main functional modules

Application	Main functions
Real-time monitoring and analysis	Data acquisition, storage and retrieve
	Real-time monitoring and intelligent alarm
	Data modeling and data mining
	Report, remote maintenance and WEB
Distribution network analysis and optimization	Network topology , state estimation
	Power flow , short circuit analysis
	Network reconstruction , security analysis
	Sensitivity analysis , AVC
	Load shedding , FLISR(Fault location, isolation and system restoration)
	Switching scheduling, load distribution and transferring
	Statistics and analysis of network loss
Power outage management	Customer trouble call management, intelligent fault diagnosis
	Mobile operation management, resource management, team management, work order management, sit
	Customer self-service, IEEE reliability index analysis, business intelligence analysis(BI)
Training simulation	Steady-state simulation
	Dynamic simulation
	Dispatcher training
	Evaluation of training results

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