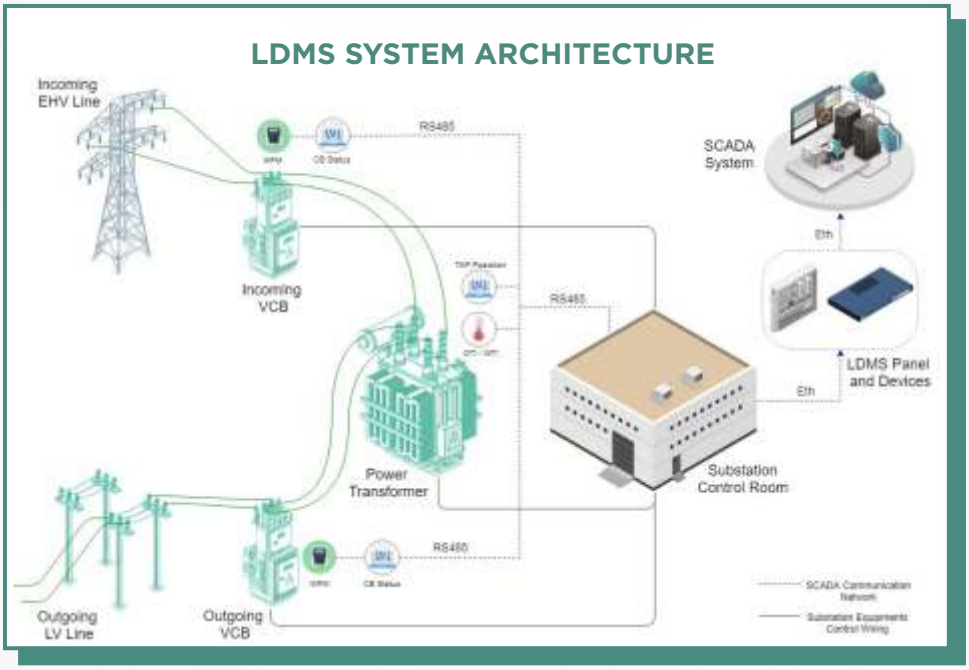
digital reach pvt ltd

LOCAL DATA MONITORING SYSTEM (LDMS)

The LDMS is a client workstation software to connect main SCADA/ DMS control centre software for local monitoring of SCADA/DMS system.



The LDMS, also known as the Local Data Monitoring System, performs the same task of acquiring data and tele-control from RTUs via Ethernet using the IEC 60870-5-104 protocol. The EHV/MV/LV substations have PC/printer setups with suitable SCADA software to view and print daily/hourly log sheets. The LDMS is a mini SCADA system that can be used in the substation control room building. It stores real-time telemetered and calculated data every five minutes, along with alarms, events, and SOE. Reports can be generated to analyze the maximum, minimum, and average values of all substation parameters. The LDMS also allows for manual data entry.

The LDMS will be a compact SCADA system with a user-friendly interface for use in substation control room buildings. The LDMS software includes various functions such as data acquisition for different types of data, data processing for conversion to engineering units and validity checks, as well as calculated data for values like maximum, minimum, and average with associated timestamps. It also has features like time synchronization, sequence of events processing, supervisory control, alarm management, tagging, trending, and quality codes. Additionally, it incorporates single-line diagrams, trends, and reports on a daily, weekly, and monthly basis. The LDMS is also capable of generating additional displays, single-line diagrams, reports, and trends as needed.

The LDMS stores real-time telemetered and calculated data at regular intervals, which can be adjusted to 15, 30, 45, or 60 minutes. The hardware and software components are designed to store all the data for at least six months. Furthermore, alarms, events, and SOE are also stored regularly. The LDMS allows for the definition of daily, weekly, and monthly reports for substations. Reports can be generated to highlight the maximum, minimum, and average values of all station parameters with corresponding timestamps. The historical data stored in the system follows standard format and can be exported to spreadsheet programs like Excel.

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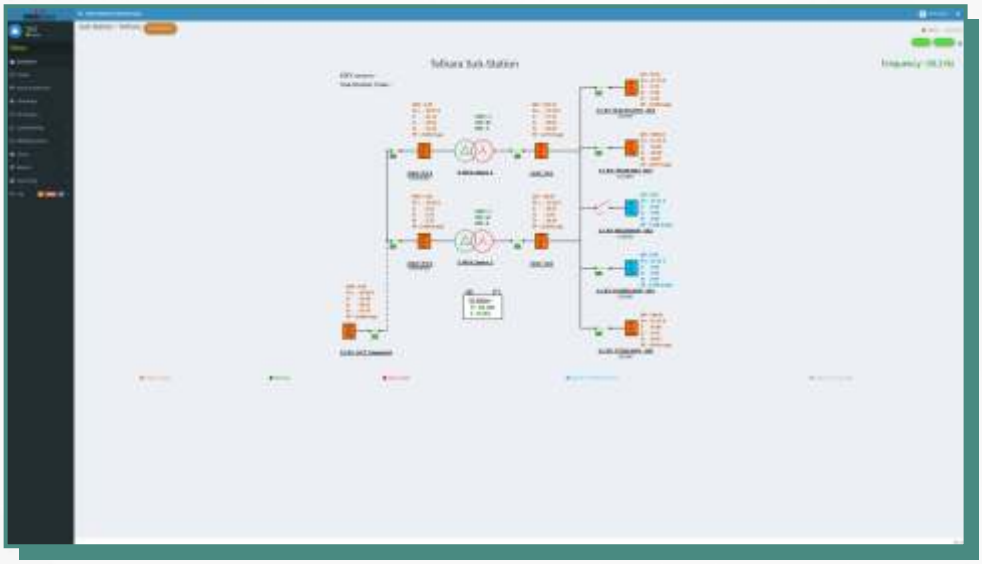

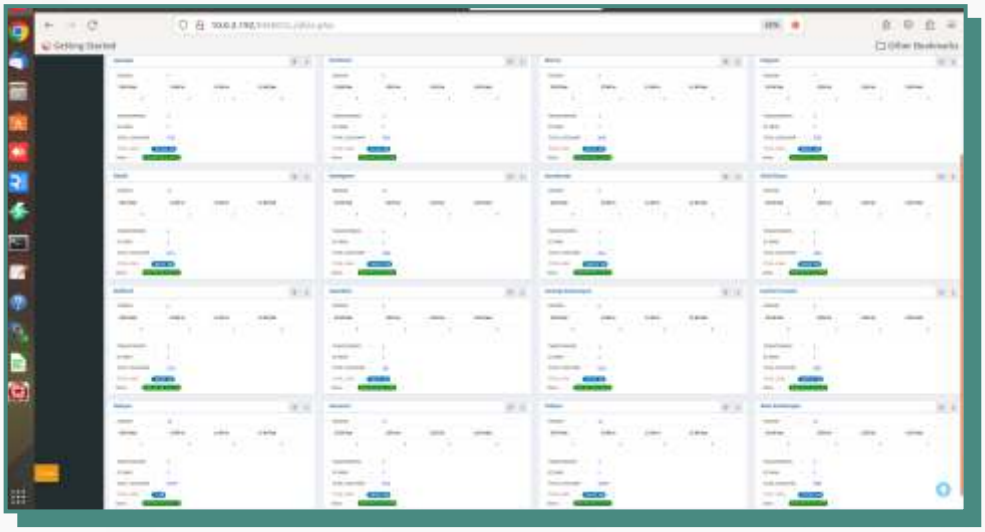

The LDMS updates analog data from RTUs every ten seconds, and status data is updated only when there is an exception. The SOE status data is recorded with a resolution of 10 minutes timestamp.

FEATURES

Supervision and local control for substation.
SCADA based on Client / Server Architecture.
Multiple clients control and display..
Sequence of events reporting with time stamped event data
Real time monitoring with real time and graphical presentation of data
Alarm notification, Report and Real time Events
Database in real time. | Trends in real-time and historical.
Security Level | Connection to different database systems.
Customize report generation | Complete tool drawing.
Libraries for the electrical and industrial
Filters and tools to print and export. | User friendly design procedure

APPLICATION

LDMS (Local display and monitoring system)
Sub Station RTU, IED and others equipment monitoring and control
Smart Grid application | IEC 61850 based substation monitoring and control
Electrical power transmission networks and associated equipment
Mining and Minerals | Pipeline monitoring or supervision and control
Environmental monitoring systems | Wind Power plant monitoring

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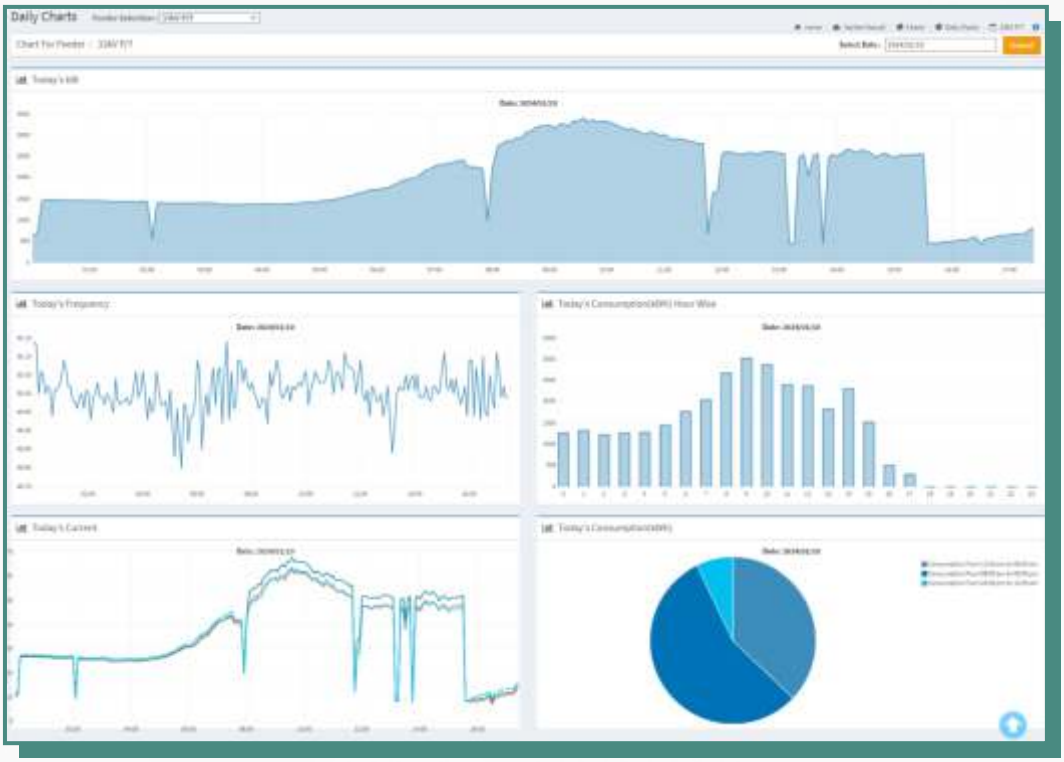

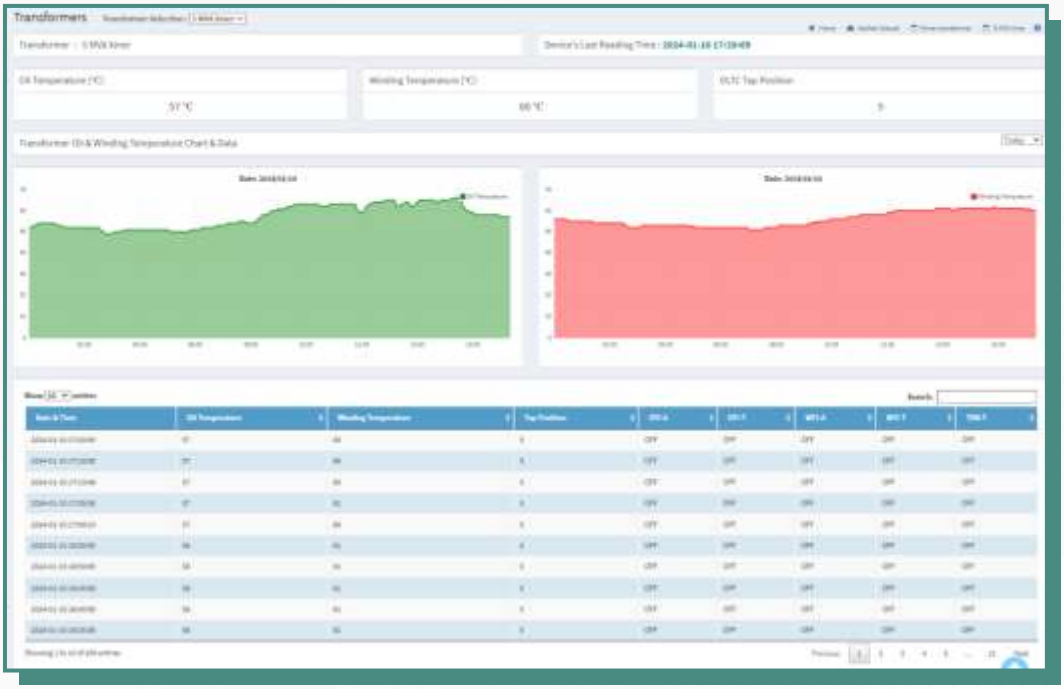

LOCAL DATA MONITORING SYSTEM (LDMS)
SPECIFICATIONS

GENERAL

Communication Protocols	IEC60870 -5- 101/104,DNP3,IEC 61850, Modbus
User type	Local and Remote User Mode Client, Developer
OS Support	Microsoft® Windows XP, 7

HARDWARE RECOMANDATION

Processor	Intel® Core™ i3 or better
Memory	On-board 4GB or better
Storage	250 GB or better

OTHER CHARACTERISTICS

Data Collection	Collect data through different protocols
Database	Real time database
Report	Customized report generation

PROTOCOL SUPPORT

IEC 61850
DNP3.0
IEC 60870-101
IEC 60870-104
OPC

ABOUT US

Digital Reach enables the IoT devices to interconnect the embedded systems to the internet. The IoT devices are fully programmable as per customer requirements and it can be deployed in nearly all the areas like Manufacturing, Energy & Utility, Health Care, Home Automation, Retail etc. With our expertise in embedded hardware development, embedded software development, system integration, and project execution, we bring in our experience, commitment and team work to exceed our customer expectation in every customer engagement.

DIGITAL REACH PVT. LTD.
502, Venus Atlantis, Prahlad Nagar, Ahmedabad 380015, India
Mobile : +91 9898062209 | Email : info@digireach.com | www.digireach.com