



VERTICROSS



Meter Data Acquisition System (MDAS)



About Verticross

Verticross is an automation company focused on transforming customers' businesses through state-of-the-art technology. Specialising in power, water, gas, oil, transportation and security, our mission is to become a global leader in communication systems, data acquisition and analytics by the year 2024.

Verticross is led by a dynamic team of professionals who possess a wealth of experience in applied research and development in the areas of communication and data transfer protocols for embedded systems in the automation of energy, water and gas utilities.

The communication systems form an integral part of data acquisition for billing, audit, decision support and analytics. Our products include automatic meter readers, energy management solutions and pump monitoring systems, while our services encompass consultancy, installation, commissioning, facilities management and IT support.

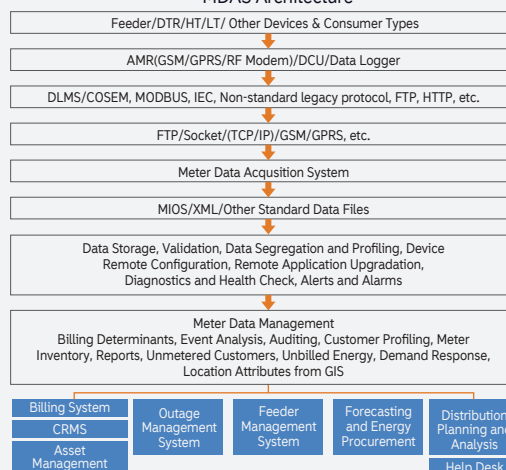
Our products and solutions conform to international standards and can be seamlessly integrated with legacy system. In addition, they can be customised in order to address and exceed customer expectation.

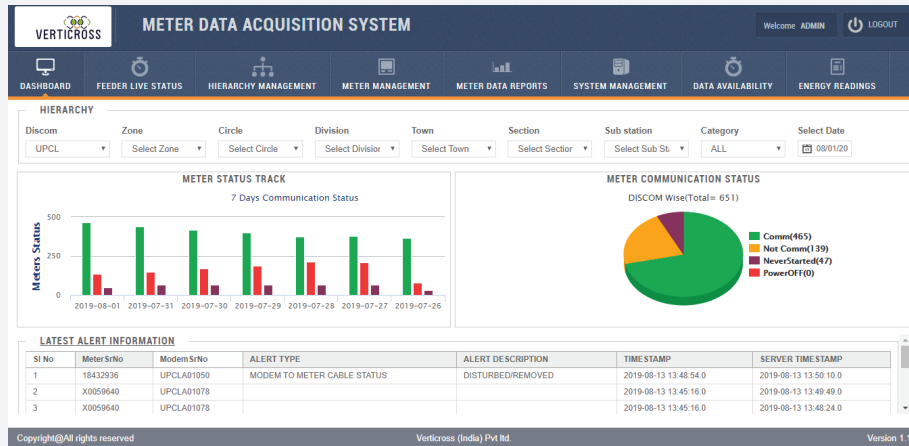
Meter Data Acquisition System (MDAS)

Meter Data Acquisition System (MDAS) is a centralised data management system that controls and enables management of GPRS modems that gather energy data in real time. It acquired meter data from various models/ makes of energy meters at DTR, LT, HT and feeder locations.

This data includes information related to billing, load survey, tampering, active/reactive power, system outages/downtime, as well as alerts and alarms.

MDAS Architecture





MDAS Dashboard

Features

- Interfaces with performance indicators and energy audit modules
- Flexible design to interface with energy meters of any make
- Remote configuration and diagnostics
- Programming Over The Air (POTA)
- Import and export of data in MIOs-XML format
- Time synchronisation
- Validates meter data at the communication, processing and structural levels using internal algorithms
- FTP protocol used to transmit data from AMRs to MDAS server
- Uses TCP/IP protocol to transmit data from modem to MDAS server
- Real-time alerts for connection and disconnection
- Data-on-demand feature
- Event logging for meter tampering (physical/ logical) and connection/disconnection
- Segregates data into billing data, alerts & alarms, etc.
- Seamless integration with standard Meter Data Management (MDM) software for billing system, help desk, CRM, energy audit, etc.
- Customised report generation
- Automatic diagnostic testing of DCU, AMR etc.





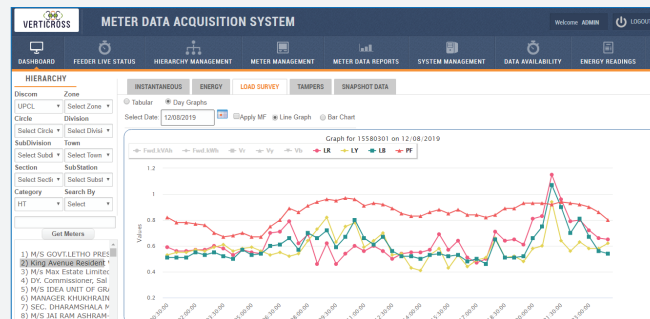
List of Reports

Feeder Live Status	Energy Readings: Main/Cumulative Energies Report	Load profile Data: Textual Report
Instantaneous: Latest 10 Records of the selected meters	Energy Readings: Maximum Demand Report	Load profile Data: Textual Report
Instantaneous: History based on month selection	Energy Readings: Maximum Demand Report	Meter Events/Tampers
Instantaneous: Graphical reports of Voltage and Current Parameters	Energy Readings: Daily Reset Energies (For Category-C meters)	Midnight Snapshot Data
Instantaneous: Report can be viewed by applying multiplication factors	Energy Readings: Daily Reset Energies (For Category-C meters)	OnDemand and Settings change of the device
Alerts Report	Diagnosis Report	Device Communication Summary

Reports (illustrative, not exhaustive)

METER DATA ACQUISITION SYSTEM														
HIERARCHY														
Discom	Zone	Circle	Division	Sub-Division	Town	Section	Sub-Station	Sub-Section	Sub-Sub-Station	Sub-Sub-Section	Sub-Sub-Sub-Station	Sub-Sub-Sub-Section	Sub-Sub-Sub-Sub-Station	Sub-Sub-Sub-Sub-Section
UPCL	Select Zone	Select Circle	Select Division	Select Sub-Division	Select Town	Select Section	Select Sub-Station	Select Sub-Section	Select Sub-Sub-Station	Select Sub-Sub-Section	Select Sub-Sub-Sub-Station	Select Sub-Sub-Sub-Section	Select Sub-Sub-Sub-Sub-Station	Select Sub-Sub-Sub-Sub-Section
Category	Search By	HT	Select	Select	Select	Select	Select	Select	Select	Select	Select	Select	Select	Select
Get Meters														
1) M/S GOVILTHO PRE- 2) M/S ANAND RANGHRI 3) M/S Max Estate Limited 4) DY. Commissioner, Sal 5) M/S IDEA UNIT OF GRU 6) MANAGER KHORRAIN 7) SEC. DHARAMSHALA P 8) M/S JAI RAM ASHRAM 9) M/S JAI RAM ASHRAM														
Showing 1 to 10 of 537 entries														
Previous 1 2 3 4 5 ... 54 Next														

Instantaneous History Data



Load Profile Graph

METER DATA ACQUISITION SYSTEM														
HIERARCHY														
Discom	Zone	Circle	Division	Sub-Division	Town	Section	Sub-Station	Sub-Section	Sub-Sub-Station	Sub-Sub-Section	Sub-Sub-Sub-Station	Sub-Sub-Sub-Section	Sub-Sub-Sub-Sub-Station	Sub-Sub-Sub-Sub-Section
UPCL	Select Zone	Select Circle	Select Division	Select Sub-Division	Select Town	Select Section	Select Sub-Station	Select Sub-Section	Select Sub-Sub-Station	Select Sub-Sub-Section	Select Sub-Sub-Sub-Station	Select Sub-Sub-Sub-Section	Select Sub-Sub-Sub-Sub-Station	Select Sub-Sub-Sub-Sub-Section
Category	Search By	HT	Select	Select	Select	Select	Select	Select	Select	Select	Select	Select	Select	Select
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Showing 1 to 29 of 29 entries														
Previous 1 2 3 Next														

Energy Readings – Cumulative

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