SANDS

AUTOMATIC METER READING SOLUTIONS

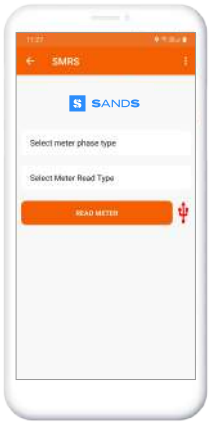
The DLMS meter reading application runs on Android mobile devices. It is an effective and efficient meter reading solution for DLMS meters (IEC-62056) & Smart meters (IS-16444). This application supports reading and real-time viewing of field meter profiles, data view, programming the meter, smart meters connect/ disconnect. This is also a solution to address the last mile connectivity issues - where the AMR and AMI networks failed due to a network problem.

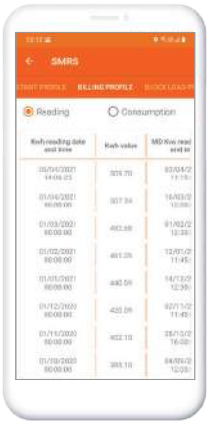
FEATURES

- SANDS DLMS meter reading application is an effective solution for reading, configuring and controlling the DLMS meters
- Simple and user-friendly GUI
- Supports all leading meter manufacturers DLMS meters (Tested with 30 makes of both single-phase and three-phase meters).
- Real-time data profile view, using compact BCS supports both graphical and tabular report formats.
- Compliant to IS-15959 / IEC-62056 – Part 1, Part 2 standard
- Supports both online and offline mode (Poor network connectivity and network unavailable instances) – data shall be stored in the device memory, user can upload the offline data when the network connection resumes
- Hardware for communication – Universal optical cable with USB,OTG port setup shall be provided
- GPS locations of meters recorded automatically while reading meters (Optional)
- Secured server communication for
  - License registration and version updates
  - Login authentication
  - Data dumping to MDAS / MDM servers
  - Downloading/uploading of meter, customer information for smart meter connects / disconnect features
- On-field instantaneous analysis using compact BCS supports the following profiles, by selecting the data files from internal/external storage
  - Nameplate and programmable
  - Instantaneous data and phasor view
  - Billing (Present and history data with TOD values)
  - Load survey (Tabular and Graphical view)
  - Tamper events
  - Transactions
- Compatible with the following Android Versions
  - Android V6.0 (Marshmallow)
  - Android V7.0 (Nougat)
  - Android V8.0 (Oreo)
  - Android V9.0 (Pie)
  - Android V10.0 (Q)
- Protocols Supported for data upload/download
  - TCP/IP, HTTP , HTTPS , FTP, MQTT(Optional)
- Data formats supported
  - JSON, TXT, CSV

- The communication between the meter and the mobile device is bi-directional, through USB optical probe + OTG cable.
- The application collects the meter data based on user input and stores the data in the device's memory.
- Mobile to cloud server communication for uploading / downloading the data is through secured web services (HTTP, FTP).
- Mobile to local server communication for uploading / downloading the data is through USB data cable.
- Based on the solution package chosen by the

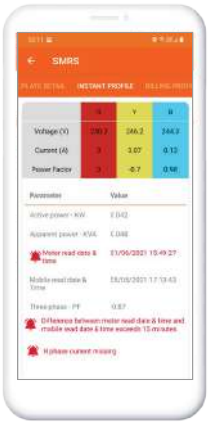
PROFILES


METER SELECTION


READING

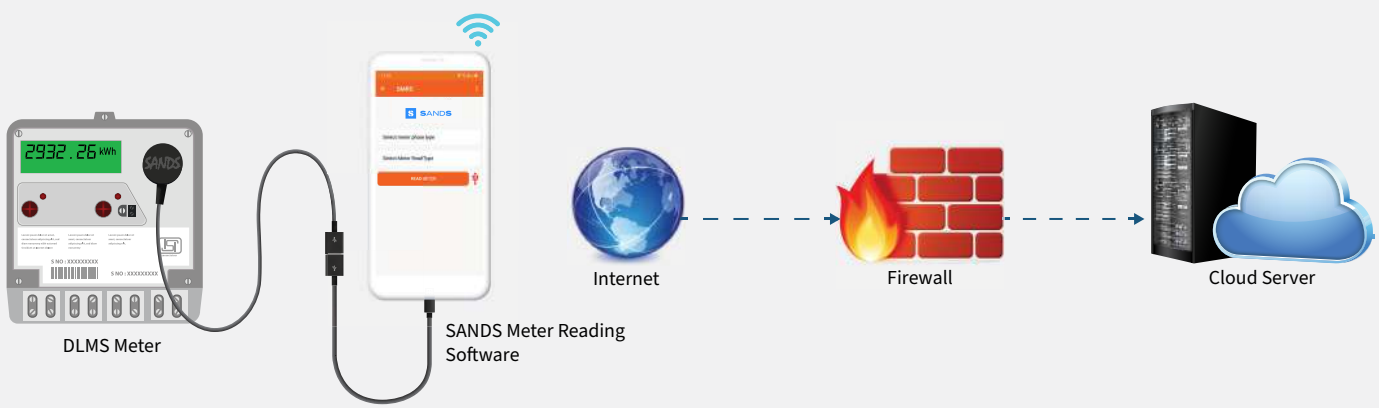
BILLING PROFILE

TAMPER PROFILE


INSTANT PROFILE

BLOCK LOAD PROFILE

CLOUD BASED ARCHITECTURE



Prices are subject to actual requirements, contact sales for pricing

Product development is continuous process - Specification subject to change
Automatic Meter Reading Modem. 20/08/24

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