

# ISMS Revenue Management System



The ISMS second generation is an improved version of the first generation integrated AMR and Prepayment system, taking into account several years of practical experience on manufacturing, installing, commissioning, operating and maintaining Smart Meter installations in some of the harshest environments in the world. The system is an end-to-end South African design, and is specifically developed to cater for our local conditions and challenges, which differ substantially from Europe, the Americas and other 1<sup>st</sup> world environments.

Further System Attributes are

- Technology optimized design to get best fit between Functionality, Performance, Expandability as well as Capex and Opex costs
- Advanced tamper detection and energy audit functionality at various levels in the system
- High level of automation and built in audit functions to ensure accurate data accumulation during installation and commissioning and data maintenance during operation and maintenance.
- Close to real time technical checks of all components in the system and alarming once there are any exceptions (communications stats, no comms to display, cell active)
- Load management option to do geyser control
- Load control built in functionality enabling load limiting
- Time of Use tariff enabled
- Flexible transition between AMR and Prepayment with no hardware changes required
- Free basic electricity can be dispensed automatically
- Arrears can be recovered on a flexible scheme between fixed amount or percentage of purchases
- Integrated with the GSM network; meter readings as well as maintenance and loss control actions use the GSM network
- Many standard reports for operation, maintenance and Revenue Management functions with the ability to write customized reports in record times
- Reduction of overheads and reduction of admin burden through scheduled automatic tasks such as automatic meter reading
- Distributed processing and high level of processing ability in Cell concentrators allows lower communications costs and lower burden on Central
- Multiple vending and cash collection options with an industry standard interface

## System Diagram

