

THE FUTURE OF WATER MANAGEMENT



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Introduction

Smart Metering, Smart Communities

- Smart metering technology is becoming a worldwide trend
- Communities can benefit from these advances
- Consumer is able to manage consumption and control usage
- Municipality is able to monitor and control water usage and proactively tend to leakage and tamper queries
- Improved revenue collection and billing system

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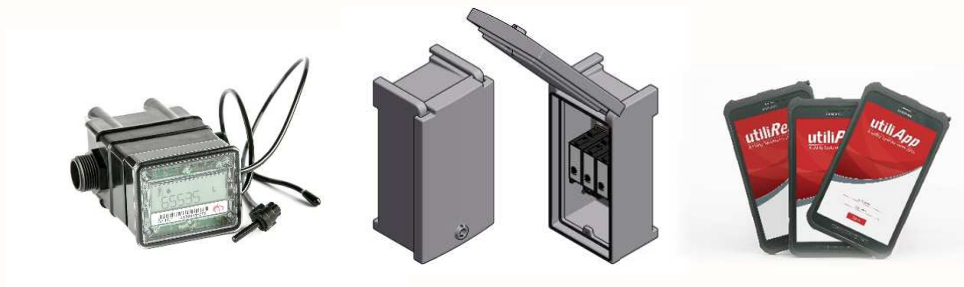


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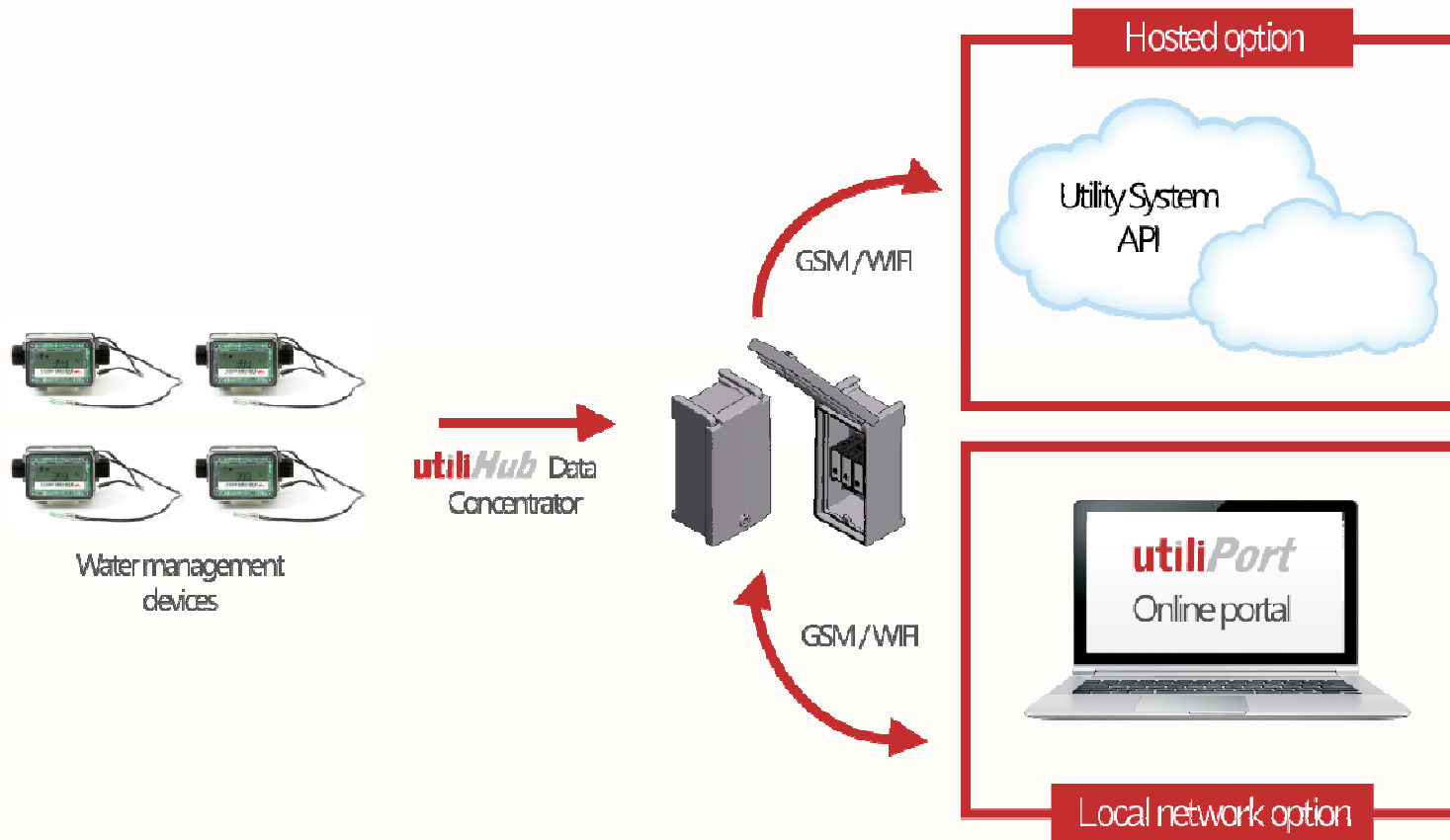
Prepaid Water Metering with AMI

This solution comprises the following products:

- *utiliMeter*
- *utiliHub* - A data concentrator
- Application Programming Interface (API) - A cloud based backend system for managing communication to and from the *utiliHub*
- A datastore for storing, analyzing and communicating data
- *utiliPort* - A web interface for administering the backend system and data store
- Applications



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Benefits to the service provider

- Low cost of acquisition
- Capital recovery possible within months by curbing water wastage and improving collection rate
- Extremely versatile smart metering system which addresses most metering challenges
- Prevents wastage and loss of treated potable water
- Accurate water balancing across a zone using synchronised meter readings in-field programming, testing, and interrogation
- No proprietary billing system required

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Benefits to the consumer

- Consumers can budget their daily or monthly consumption through prepayment
- Daily or monthly carry-over where service providers allow it
- Accumulation of unused daily allowance, which encourages responsible water usage
- STS vending allows for a wide range of vending options for consumers
- Lifeline water – the ability to draw an additional configurable allocation to be repaid out of the next purchase when credit is exhausted
- Emergency credit – an allocation, configurable by the water service provider, that allows the consumer a once-off allocation of water regardless of credit status to be used in an emergency such as a fire

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Benefits of an STS system

- IEC specification accepted in nearly 100 countries worldwide
- Can select from any other certified STS vendors for vending
- Is not locked into a proprietary system as with IC card type systems
- Has numerous vending options to make purchasing convenient for customers
- Is able to vend to both water and electricity meters that are STS compliant
- Not having a physical token carrier allows for transmission of credit vouchers over multiple channels such as:
 - ✓ SMS
 - ✓ Internet
 - ✓ ATM
 - ✓ Third party vendor

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The vending system features include:

- The ability to collect arrears and to implement fixed charges, block tariffs etc.
- The use of PC based vending units that connect over LAN/WAN/internet
- The use of point of sale units that connect over internet
- Third parties vending outlets (banks, petrol stations, supermarkets etc.) that connect over internet/VPN



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Reports

- All reports exportable to SAP, Excel, PDF etc.
- Auto-mailer can be set up to send key reports to staff based on a reporting schedule
- Report easily customizable by SQL database administrator or similar
- Standard reports include
 - Low/no Purchase
 - Cash Collection
 - Sales by Area
 - Transactions by Virtual User/Customer
 - Month Management Summary

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Approvals

- NRCS (formerly the SABS) UNDER SANS 1529-9 for both flow limitation and prepayment
- The prepayment approval is under class C, and not class B as with other products
- It also has approval from the STS association in compliance with IEC 62055-41 and IEC 62055-51 for prepayment
- ISO 9001 : 2015 certified

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Services: Community Liaison

- Link local communities within KwaZulu-Natal, municipalities and companies that provide water management services
- Conduct open meetings within local communities to understand their needs, advise on projects, schedule training and arrange necessary support services
- This community participation will get residents
 - ✓ Invested in the success of the project
 - ✓ Encouraged to maintain infrastructure and devices
 - ✓ Prevent unnecessary sabotage of the project

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Services: Product Training

- An interactive course designed to equip all levels of users at the municipality and consumers on the various ways that water management solutions can help them and the effects of the water crisis
- Assists in prevention of water loss and wastage through upskilling and leak detection
- Gain awareness around the advantages of water management initiatives thus gaining buy-in and community support

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Services: Customer Support

- Assistance by means of e-mail, live support online or via a resource in the field as well as self-help manuals
- Community access to support resources to
- Assist in the smooth integration of new water management technology
- Increase benefit from the many features they now have access to

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Thank you



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