

Sagemcom

Siconia[®] Packet core for utilities

Smart grid platform



Siconia® software suite is a unified Smart Grid platform designed in order to support Utilities Business Process for multi-Energy (Electricity, Gas, Water, Heat) and Low Voltage Grid supervision. The process of such data is managed from the collection to the delivery to the DSOs – using the most advanced encryption techniques and relying on powerful Key Management Systems to manage end-to-end Cyber Security and Monitoring solutions (Complex Event Processing, KPI and SLA analysis).

Technical features

MULTI UTILITY SUPPORT

- (Electricity, Gas, Water, Heat)

METER-TO-CASH PROCESS SUPPORT

- Multi Tarif management
- Post payment
- Pre payment

GRID MANAGEMENT PROCESS SUPPORT

- Power Quality
- Outage

MASTER DATA SYNCNHRONIZATION

- Meter configuration
- Internal Rules configuration

DEVICE CONTROL TRANSACTION (DCT)

- Commands management
- Criticals commands management

VEE (VALIDATION, ESTIMATION BASED ON FLEXIBLE RULES AND EDITING)

METER LIFECYCLE BASED ON STANDARD BUSINESS PROCESSES OF UTILITIES

- Physical / Communication status

INFRASTRUCTURE MONITORING TOOLS

- End-to-End Performance monitoring
- Communication monitoring
- Firmware monitoring

QUALITY OF SERVICE

- Business Process Monitoring
- Service level monitoringt

EVENTS/ ALARMS NOTIFICATION BASED ON COMPLEX EVENT PROCESSING (CEP)

STANDARD BASED

- DLMS / COSEMIEC 62056
- CIM-61968-9

- MDUS for SAP intergration
- Multispeak for Oracle integration

END-TO-END ARCHITECTURE

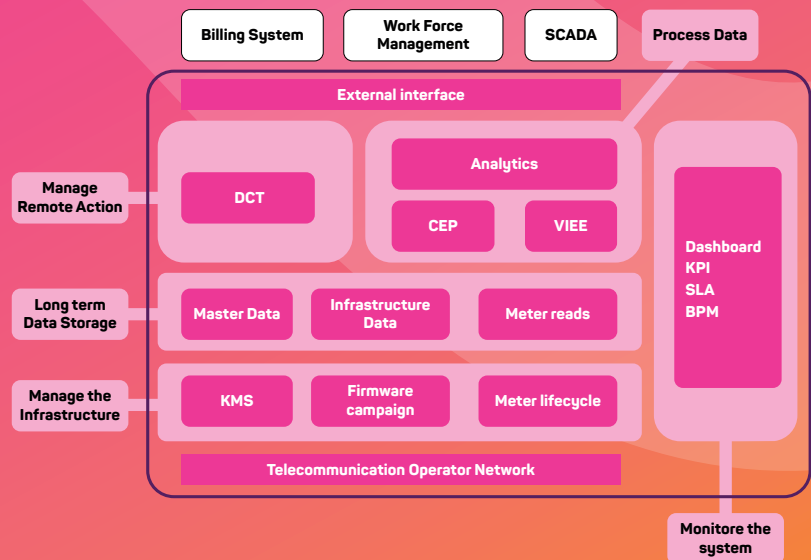
- Store & Forward (based on DCU concept)
- End-to-End IPv6 with PLC Gateway
- Direct Peer-to-peer
- 2G / 3G / 4G (LTE Cat.1, LTE Cat.M, NB-IoT)
- RF technologies (169MHz)
- LoRaWAN

SECURITY FOR TELECOM INFRASTRUCTURE FULLY INTEGRATED

- Keys management for WAN and LAN communications
- DLMS Security Suite 0, 1 and 2

IT ARCHITECTURE BASED ON

- Service-Oriented Architecture (SOA) concept applied for future-proof
- Open Source oriented
- Horizontal scalability (via Virtual Image principles)
- Modular approach for scalability purposes
- Unified WEB interface for end-user



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