

# Gridstream Converge

Gridstream Converge is an advanced metering management (AMM) system for industrial, commercial and grid applications, making your metering related processes more effective. Thanks to its n-tier architecture, it is scalable and able to serve systems of different sizes. The modularity allows building solutions matching different customer needs.

## Benefits of Gridstream Converge

- Collect data from ICG meters automatically and accurately for utility business processes
- Utilize the extensive meter support with over 140 different meter types from more than 40 manufacturers including all major protocols
- Select the appropriate communication technology from the wide selection
- Scalable system up to 500,000 metering points
- Integrate Converge to other business systems with flexible interfaces
- Measure and report also power quality metrics
- Ensure success with a system that has strong references and proven performance



### System integration

Billing, forecasting, SCADA, partners, system operators



### Gridstream Converge

Data Acquisition, Data Processing, Reporting and monitoring, Power Quality Reporting, Data exchange



### Communication:

GSM/GPRS, LAN/WAN, PSTN, serial, ...



### Smart metering

Electricity, Gas, Heat/Cold, Water

## Data Acquisition Features

- Automatic and manual meter reading
- Load profile data, meter value status, billing data and meter status
- Synchronizing central station and device time
- Daylight saving handling
- Communication diagnostics and maintenance
- Communication back up line for enhanced availability
- Acquisition monitoring
- Data validation
- More than 140 different meter types supported
- All standard protocols being supported (i.e. DLMS, ANSI, IEC)
- Supported communication technologies: GSM/GPRS, TCP/IP, PSTN, Serial
- Flexible Data Calculation

## Data Processing Features

- Consumer data in tree structure
- Predefined report templates (HTML, Excel, TXT)
- Own report creation and distribution
- Data calculations and aggregations
- Daily tariffs and agreements
- Day profiles including holidays
- Data storage
- Integration with other systems (using standard IEC 61968) or custom defined interface
- Interfaces to billing systems (incl. SAP IS-U/CCS, SAP IS-U/EDM)
- Interfaces to internet portals (incl. W1000)

## Administration Features

- Protected user access
- Role based Authorization
- Data segmentation
- Meter data archiving
- Advanced auditability – Logged activity
- Alarm and event processing

### Virtualization:

- Virtualization is supported on certified Microsoft solutions (VMware, Hyper V)

### Oracle Exadata compliant / ready

### Disaster recovery:

- RAC (Real Application Cluster)
- Oracle Data Guard
- Oracle Fail Safe

## System Requirements

Hardware requirements are depending on the size and on the expected performance. A detailed description for a system of a certain size can be provided per request. Converge supports 64-bit server environment.

### Minimum system requirements:

- Operating system: Microsoft Windows Server
- Database: Oracle
- Client web browser: Internet Explorer
- Microsoft Excel

## System deployment options

### All-in-one system

In this deployment scenario the system consists of a single machine running Windows Server. The machine hosts Oracle Database as well as Converge application. Virtualization is not supported.



### Single-server system

Single-server system refers to single application server for Converge, database server runs on another machine. The application server is operating Windows Server.



### Distributed system

Distributed system consists of several application servers running Windows Server and database server(s) running Oracle Database. Application servers host Converge and are recognized by one or more application roles, such as Master, Data Acquisition, Data Processing or Data Validation.



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