



Converge is an end-to-end software solution for industrial, commercial and grid applications. It covers the whole chain from data acquisition through meter data management, all the way to a flexible interfacing to 3rd party systems. Scalability and modularity of the application allow to serve customers of varying sizes and to meet their requirements.

Key benefits

- Automatic and manual data collection from ICG meters
- Communication technology flexible solution with backup line support
- Modern and user-friendly UI with support of the latest web browsers
- Up to date in cybersecurity thanks to continuous development
- Extensive meter support with over 150 meter types from more than 40 vendors
- High scalability from low hundreds to up to a million of metering points
- Reliable Oracle database allowing for high availability solutions
- Strong references from more than 100 installations worldwide

System Integration

Billing SW, Forecasting Applications, SAP, PI, SCADA, Web Portals

Converge Meter Data Acquisition, Calculation, Validation, Processing, Reporting, and Export

Communication TCP/IP, GPRS, GSM, PSTN, and more

Smart Metering Electricity, Gas, Heat/Cold, Water

Data Acquisition Features

- Automatic and manual meter data collection
- Load profiles, billing values, daily profiles, meter events and statuses
- Time operations with synchronization
- Daylight savings time handling
- Communication monitoring, statistics, and backup communication line support
- Meter data visualization (table, chart)
- Acquisition error handling and task rescheduling
- Smart functionalities (breaker and relay control, load limiters, TOU tables)
- More than 150 different meter types supported

Data Processing Features

- Business-oriented consumer tree for data segmentation
- Validation, estimation and editing (VEE) process
- Data calculation and aggregation
- Tariff management including holiday and special day handling
- Advanced reporting capabilities (dashboards, built-in reporting engine, custom reports)
- Flexible and innovative interfacing options to 3rd party system via API (Billing SW, SAP, Web Portals)
- Meter data archiving and storage



Administration Features

- Protected user access
- Active Directory integration
- Data segmentation
- Meter data archiving
- Advanced logging and auditing
- Alarm and event processing

Utilized Technologies

- Deployment (Kubernetes, Docker)
- Virtualization (VMware, Hyper-V)
- Monitoring (ELK Stack)

Oracle Exadata compliant / ready

System Scalability

- Converge for smaller customers (up to 500 metering points)
- Converge (up to a million metering points)
 - High Availability
 - Disaster Recovery

Hardware System Requirements

Converge is highly scalable and can support small to large installations. A detailed description of hardware requirements can be provided based on individual request.

Software System Requirements

- Operating system
 - Windows Server 2019, 2016
 - Linux Red Hat Enterprise, Ubuntu, CentOS
- Database
 - Oracle 19c, 18c, 18XE, 12c (12.2)
- Web browser
 - Microsoft Edge*
 - Google Chrome
 - Mozilla Firefox
 - Apple Safari

*both Chromium (86+) and Microsoft (09/2019+) based versions

System Deployment Options



All-in-one System

The smallest deployment scenario. A single machine is used to operate both Converge and the database.



Single Server System

The medium scale deployment scenario. Converge runs on separate application server from the database, which hosts its own dedicated server.



Distributed System

The distributed deployment is the largest scenario. There may be an x number of application servers used for different Converge components such as data acquisition, data validation, and data processing. The database may also be hosted in numerous servers.

Landis+Gyr AG | Alte Steinhauserstrasse 18 | CH-6330 Cham www.landisgyr.ch

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