

ZONOS™

More than just metering
aEMT „aktiver externer
Marktteilnehmer“



DE | EN | NL | NO

Security is a key factor in Smart Metering infrastructures and Smart Grid concepts.

ZONOS™ easily allows to control and monitor any kind of devices from meters to CLS devices such as PV batteries or charging stations for e-mobility.

Our lives revolve around data. Information is generated, collected, stored, processed and widely communicated.

With the recent EU implementation of the General Data Protection Regulation (GDPR), stringent personal data security measures are taken into consideration in all aspects of life, especially in Germany.

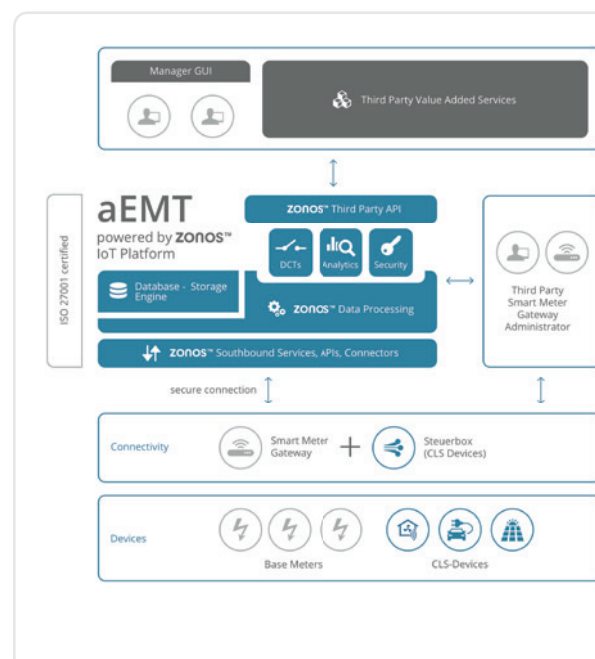
In the Smart Metering industry, rules and regulations are in place to protect consumers in terms of data protection and secured data transmission.

This is where **aEMT** come into the picture!

A state-of-the-art solution for all active energy participants, energy suppliers, grid operators and consumers to abide by such regulations through a high security tunnel of communications from the devices to the business backend solutions. This entails an ISO-27001 certified environment of FE aEMT integrated to any Advanced Meter Management (AMM) systems or Head-end Systems (HES) functionality applications.

The connectivity to the end user devices (such as meters and photovoltaic) complies with the technical guideline BSI TR-03109.

The Smart Meter Gateway (SMGW) collects the data from the device(s) and allows only authorised parties with the right credentials to have access.



The Smart Meter Gateway Administrator (SMGWA) is responsible for preparing and personalising the initial key and certificate in the integration phase of the SMGW and the security module.

Controllable Local Systems (CLSs) include locally generated energy resources such as wind and solar energy, energy storages, heaters and HVAC and other intelligent household appliances or APPs in home automation. This however, is not limited to the Smart Metering industry. The highlight of this concept is its independence and total transparency that it can be supported and integrated into other industries where data communication and security are of concerns.

The use of a dedicated security head end provides confidentiality, integrity and availability for the communication with the SMGWs.

Use cases for all parties:

- Submetering – Direct connection to manage and control a specific CLS device such as heater.

- Measurement of actual feed-in power according to TAF9 combined with switching operations via FNN control box (measure-switch-measure).

- EEG load level control over FNN control box at 0%, 30%, 60%, 100%.

- Knowledge of real-time energy consumption and efficiency.

- Load control and management over CLS devices especially in energy storage at consumer premises in terms of energy availability and tariffs.

- Billing simplicity.

The state-of-the-art aEMT solution is the only answer to all stakeholders in all industries where data and its security measures are concerned.

We work closely with our customers, understanding their needs and constraints, giving them the optimum solution in turn, for their consumers.

Benefits

- Direct access to all devices such as meters and CLS devices on a single platform.

- Secure data communication channel (end to end process).

- Protocol-independent connection of CLS devices.

- Compliance with ISO 27001 and TR-03109.

- Plug 'n' play solution, no complexity.

- Easy integration into third party solutions via API.

Your local contact

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