



## IDSpecto.HES.SMGW \_\_\_\_\_

### **Data reception from smart metering systems – secure, comfortable and flexible**

IDSpecto.HES.SMGW guarantees secure, certificate-based reception of encrypted energy data by authorized external market partners. In doing so, the flexible concept of IDSpecto supports a large number of different smart meter gateways (SMGWs) and manufacturers on field level: at present first-generation devices and in future those devices compatible with the requirements defined by the German Federal Office for Information Security (BSI). This way you as external market participant stay independent to the greatest possible extent with regard to data reception – no matter which role you hold.

### **In detail \_\_\_\_\_**

- Communication endpoint of SMGW at the external market participant (EMP)
- Broad support of different SMGWs
- High-performance cryptography in compliance with the BSI's technical guideline TR-03109 thanks to our partner MTG
- Visualization of all processes required in accordance with Metering System 2020 by FNN
- Support of electronic delivery note in accordance with FNN

## Strict separation of roles when receiving data

IDSpecto.HES.SMGW represents the communication endpoint of smart meter gateways on the side of the external market participant (EMP). All market roles of municipalities and energy companies can be visualized in a system with security infrastructure thanks to the multitenancy of the system. This ensures that data is only received, evaluated and examined by the role that has been authorized correspondingly.

## Efficiency by means of electronic delivery note

Device master data including certificates of smart metering systems can be integrated into the system and be configured for data evaluation by means of importing the electronic delivery note in accordance with FNN.

This procedure is significantly supported by the tried and tested architecture of IDSpecto. Master data including all information required to create devices is stored and available in the device management. Data to be evaluated is configured as metering respectively data points and displayed in tabular as well as graphical form. In case data is missing when reading, this is recognized by a completeness check and data is requested anew if required. This does not only apply to data relevant for billing but also to data useful for the grid such as the power quality.

## Practical application of certificate management and usage

Every certificate that serves to establish secure communication and data decryption can be administered via IDSpecto.HES.SMGW – your own certificate, certificates of SMGWs as well as TLS certificates required for secure establishment of an info report channel in accordance with TR-03109.

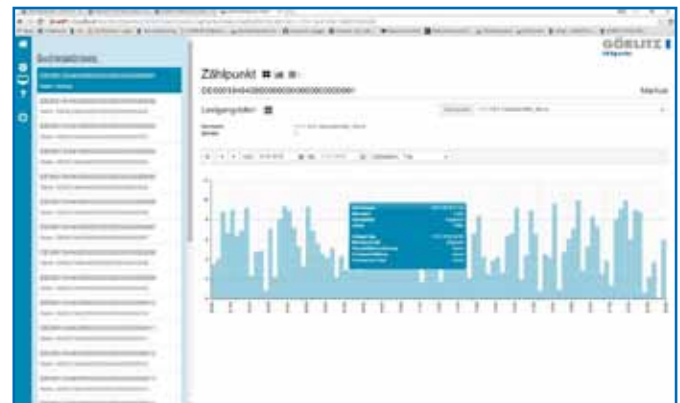
As soon as a SMGW, for example, establishes a TLS channel to an external market participant in order to send data in compliance with the configured tariff application cases, the system consults certificates and keys stored in IDSpecto.HES.SMGW to verify authentication respectively encrypt data.

The appropriate exchange of stored certificates is guaranteed by cyclic observation of run times and can be executed fully automatically.

## Flexible forwarding of data

Whether billing system or market partner: IDSpecto is able to forward data accordingly. In case of a billing system, IDSpecto.HES.SMGW is connected via export routines or directly. In case of a market partner, data is sent to the additionally available module for market communication IDSpecto.IDEX.

All actions of the system, no matter whether they had been triggered automatically or by interaction of the user, are logged and provided at any time – for example for audits.



Metered data is displayed clearly in accordance with your choice – either as a graphic or as a table.

## Complete integration into existing infrastructure

IDSpecto.HES.SMGW provides interfaces to realize all processes and use cases requiring data exchange with systems for smart meter gateway administration, for example IDSpecto.GWA. We always offer solutions in accordance with the present state of market communication. Processes as such remain and keep running without being changed.

## The system grows with the roll-out

Enter the world of smart metering systems already today at a reasonable price and extend the performance of your system in accordance with the demands placed by the roll-out. The clearly structured licensing model of IDSpecto.HES.SMGW and the fully scalable system provide complete control on costs and offer easy adaptation of the gateway administration to your individual requirements and needs.