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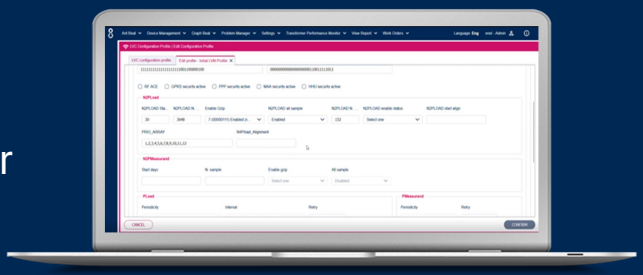
Globy.HES

The core system for smart meter operations and interoperability



Driving Efficiency and Reliability in Smart Metering

Electricity demand is rapidly increasing, along with the number of events occurring across the network. At the same time, **data is expanding in volume and becoming a key asset** for managing this transformation in an increasingly digital environment.

In this scenario, **utilities must navigate a complex and crowded technology landscape**. They are expected to deploy **reliable solutions and manage large-scale**, often challenging, **metering rollouts**, while **keeping total cost of ownership under control**.

A **new fully modular HES** is thus developed, **enabling the exchange or adoption of several communications technologies** depending on the customer needs and location.

Discover the Solution

Globy.HES is designed for multi-technology environments, **it ensures secure, efficient communication** and **enables to streamline daily operations**.

Our Head End System was born with the aim to **manage electricity meters that adhere to the DLMS/COSEM standards**. This system is **compliant with the IEC 61968-9**, a critical standard for integrating utility systems, such as enterprise and customer information systems, using the Common Information Model (CIM).

By enabling **smooth interoperability between field devices and utility systems**, Globy.HES plays a key role in digital grid operations, supporting seamless data flow, smarter decision-making and more reliable services for end users.

It comes with built-in security and regulatory compliance through centralized access management and real-time network monitoring tools

Seamless integration & interoperability

It is full compliant with DLMS/COSEM and IEC 61968-9 standards and allows an easy onboarding of third-party meters

Multi-technology management

Single front end layer managing multiple communication technologies (G3-Hybrid, PLC, RF Mesh, LTE, NB-IoT)

Modular & future-proof architecture

Scalable from pilot projects to large-scale rollouts and ready to support evolving customer needs

Covered use cases

A modular and integrated solution built to **optimize the entire metering lifecycle**.

What it enables...

Meter Data Collection and Management

The HES collects consumption, events and status data from DLMS/COSEM-compliant meters. This data is **critical for billing, energy audits and load analysis**, ensuring **accurate and timely billing** for both residential and commercial consumers.

Real-Time Monitoring and Control

HES provides real-time communication with electricity meters, enabling remote monitoring of energy consumption, meter health, and event notifications like outages or tampering. This is **essential for operational efficiency and ensuring reliable energy supply.**

Meter Firmware Management

HES allows utilities to remotely update meters firmware, ensuring they are **running the latest software versions** without requiring physical site visits. This feature helps in **maintaining a large fleet of meters at a low operational cost.**

Outage Detection

By capturing event data such as power outages or voltage dips, **HES can inform utilities in real time**, **supporting faster outage detection and resolution**. It is also key in **managing restoration efforts** by tracking when power returns.

Advanced Billing and Tariff Management

HES **supports complex billing use cases**, such as time-of-use (TOU) tariffs and dynamic pricing, allowing utilities to **offer flexible billing options to consumers.**

Authentication, Authorization, and Accounting

The AAA (Authentication, Authorization, and Accounting) is designed to **secure and orchestrate access across a complex ecosystem**.

Business Impact

OPEX efficiency

Up to **30-40%** OPEX efficiency through monitoring for ordinary/emergency maintenance

Revenue protection

Up to **65%** on network and grid interruptions

Customer services

Up to **25%** of customer services enhancement