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Globy

The path to interoperability

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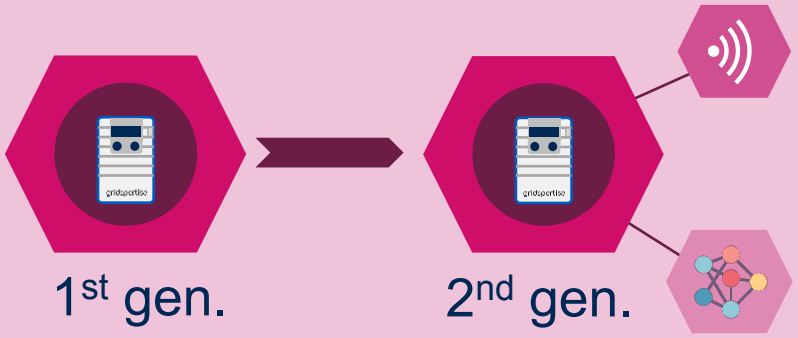
THE CHALLENGE



- Smart meters need to turn into intelligent sensors to tackle the increasing complexity of the grid.
- It is necessary to adapt rapidly to the evolving technologies as the market is highly fragmented.
- Cybersecurity and sustainability have become key factors for DSOs quality standards

OUR SOLUTION

A new fully modular Smart Meter enabling the exchange or adoption of several communications technologies depending on the customer needs and location.

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MAIN CHARACTERISTICS

- Flexible
- Interoperable
- Built to last

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Flexible

Managing multiple communication technologies and protocols according to customer needs and location (G3 Hybrid: PLC + RF Mesh, PRIME 1.4 and Cellular: LTE-M and NB-IoT)

Interoperable

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Ensuring compatibility and integration with other solutions / installations

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Enabling adaptation of communication modules directly in field during the entire lifetime

BENEFITS FROM MODULARITY

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- Fastest certification process
- Easier piece replacing
- Change telecommunications provider

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BENEFITS FROM MODULARITY

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Fastest certification process

Reduced certification times thanks to the division between metrology and communication technologies. It reduces the development and the cost of the upgrades.

Easier piece replacing

Thanks to modularity it is possible to replace the part that is in failure without replacing the whole meter. This helps to reduce OPEX.

Change telecommunications provider

Thanks to modularity it is easy to change the communication provider without dissembling the meter

The fastest way to reduce the operational cost

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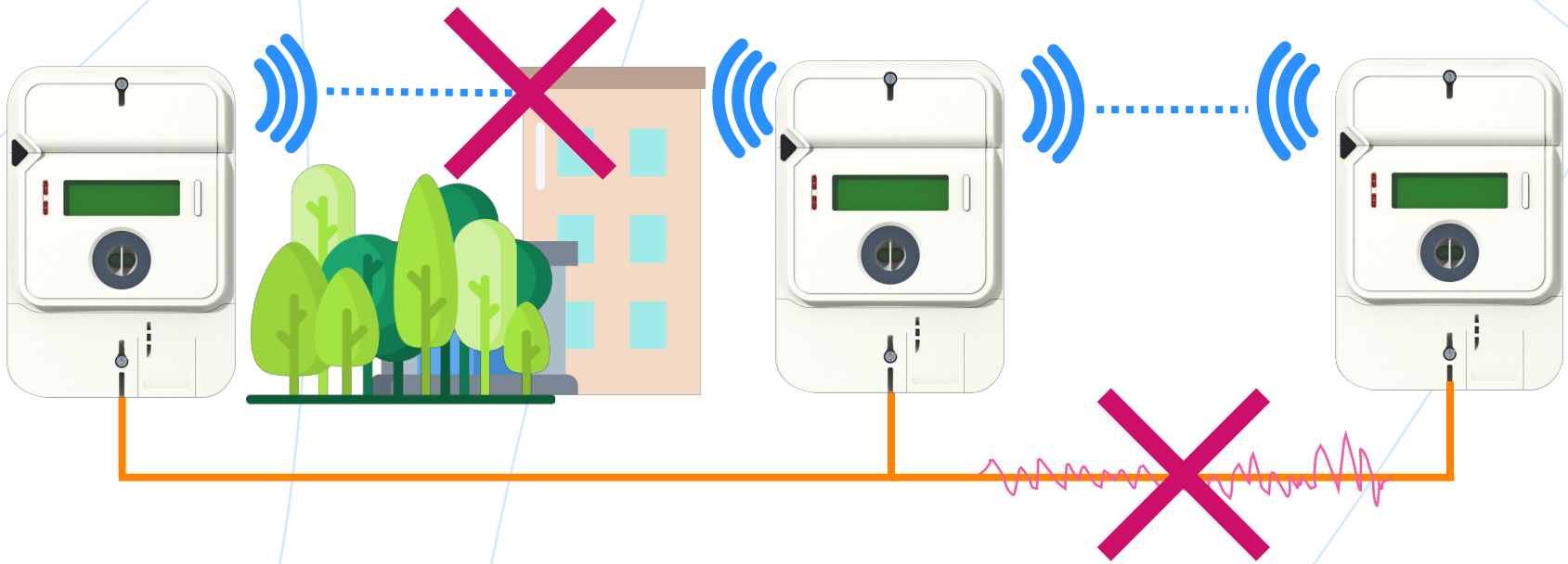
- RF
- PLC



The Hybrid module chooses the best communication technology depending on the conditions

G3-PLC RF Hybrid

PRIME ALLIANCE

It is also suitable for rural areas thanks to cellular technologies

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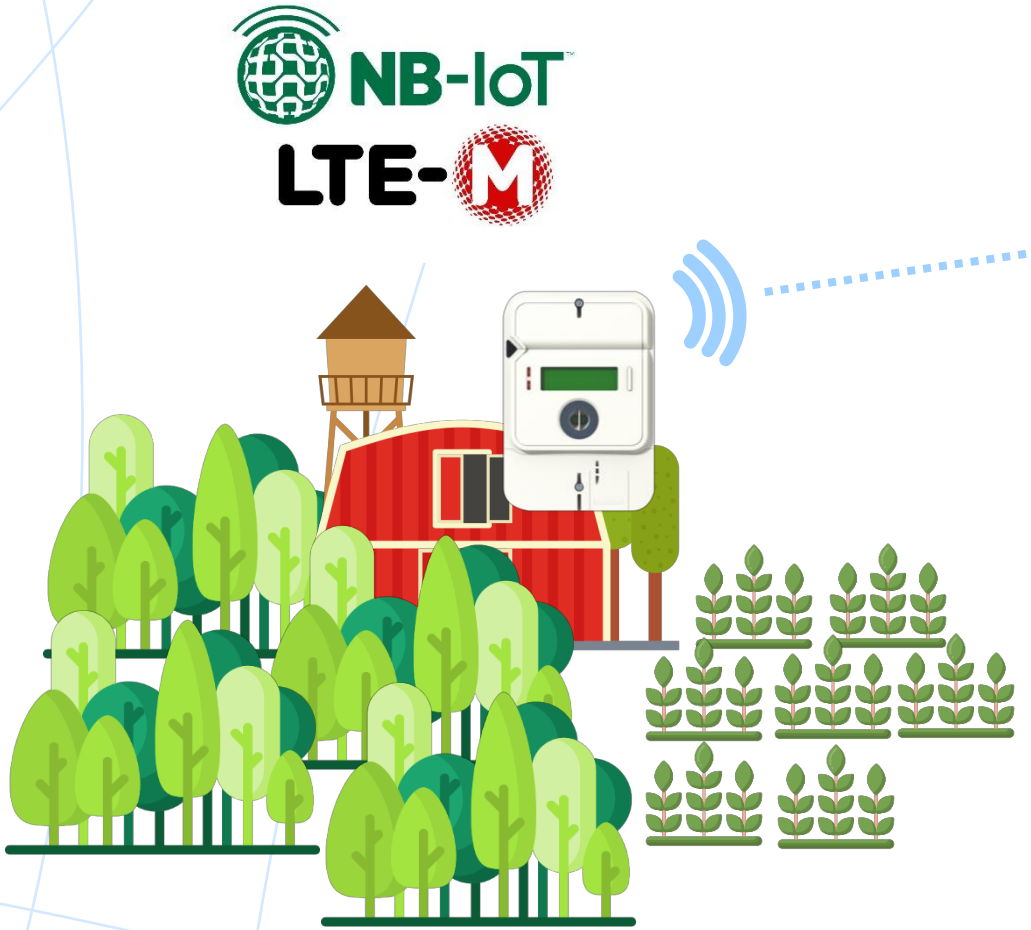

Our vision on interoperability

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Download it here!

Boosting your AMI operations while strengthening the role of the prosumer

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NETWORK STABILITY

REVENUE PROTECTION

OPERATIONAL EFFICIENCY

CUSTOMER ENGAGEMENT

Boosting your AMI operations while strengthening the role of the prosumer

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NETWORK STABILITY

OPERATIONAL EFFICIENCY

- Bi-directional energy measurement
  - Real-time energy and DERs monitoring
- Advanced management of technical parameters
  - Detect critical events in near-real time (e.g., blackouts)
- Power quality measurement
  - Grid planning
  - Quality of Service improvement
- Load shedding functionalities
  - Limit power supply in critical conditions
- Push communications from the meter and multiple communication channels to increase grid's resilience

Boosting your AMI operations while strengthening the role of the prosumer

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REVENUE PROTECTION

- Improved billing and collection efficiencies
- Fraud detection functionalities
- Data-driven inspection through energy balance and analytics, to detect meter tampering and energy theft
- Pre-payment management

CUSTOMER ENGAGEMENT

- Increased awareness on energy use, enabling sustainable habits and savings
- Customized tariff structures, enabling advanced energy and ancillary services
- Dedicated communication channel for home automation and active DER support

TECHNICAL CHARACTERISTICS

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MAIN CHARACTERISTICS

- Single-phase (2 wires), Poly-phase and CT Poly-phase devices;
- In-factory HW modularity (neutral measurement, additional ports, relay etc.);
- In-field communication modularity (PLC-RF or NB-IOT or LTE-M);
- Integrated relay;
- Bi-directional communications;
- Instantaneous magnitudes registers;
- Load shedding;
- Multi-Tariff application;
- Distributed generation application;
- Interoperable with G3 meter partners products.

STANDARDS & CERTIFICATIONS

- DLMS – COSEM standard suite 0-1-2
- ISO 27000/27001 cybersecurity

MECHANICAL CHARACTERISTICS

- Protection degree IP54
- Mono-phase maximum dimensions
  - 125x175x80 mm (B x L x H)
- Poly-phase maximum dimensions
  - 170x240x80 mm (B x L x H)
- ZVEI optical port [IEC 62056-21]
- Humidity: 0 to 95% (without condensation)
- Operation and storage temperature: -40°C to +70°C
- Altitude: up to 4000 m
- DIN Standard

ELECTRICAL CHARACTERISTICS

- Nominal voltage: 127V-230V or 230-400V ($80\%V_n < Vn < 120\%V_n$);
- Nominal current (maximum current):5(100) A for monophase, 5(100) A for polyphase and 1(20)A for CT meter;
- Frequency: Monophase – 50/60Hz; poly-phase 50Hz;
- Measurement accuracy: Class B [EN 50470-3] or 2 [IEC 62053-21] for active power and Class 2 [IEC 62053-23] for reactive power
- LED for active or reactive energy verification;
- 1ph&3ph: 4000 imp./kWh for active and 4000 imp./kvarh for reactive energy – configurable. CT: 10.000 imp./kWh for active 10.000 imp./kvarh for reactive energy – configurable
- Insulation class: II.
- Anti-tampering cover