Overcoming the cellular connectivity challenge in smart metering: IoT Connectivity as a Service

Smart electricity meters have become a key device within the Internet of Things. Connected to utilities' systems and platforms, they collect, deliver, and analyze data to manage energy better. A reliable and secure cellular communication technology is essential here. Finding the right partner and set-up can be a complex undertaking.

Landis+Gyr's cellular IoT Connectivity as a Service is helping utilities to overcome the connectivity challenges. By covering the entire communication chain from connected meters over software up to the complete platform, this service eliminates the complexity of multiple vendors, support centers, and different technologies while at the same time ensuring efficient, reliable, and secure service for our customers.

IoT connectivity as a Service is a holistic solution delivering smart meters and other devices with fast, easy and reliable embedded connectivity out of one hand.

Benefits at a glance

- Up to 20% efficiency: Pre-integrated and ready to deploy for competitive TCO
- 100% reliability: End to end service lifetime assurance with a single point of contact and support helpdesk
- > 99.5% coverage: maximum availability for any cellular communication type*, as multiple networks can be utilized, national and international roaming included
- 100% security: High security end-to-end connection from meter to the head-end systems
- 15 years warranty: Service lifetime guaranteed for up to at least 15 years
- 1 single point of contact: First-level support on devices, software, and connectivity all in one hand
- 10 years warranty on SIM cards (optional extension)

  *(depending on individual parameters)

The service: One single provider for smart metering and IoT Connectivity

Through IoT Connectivity as a Service, Landis+Gyr offers industry-best conditions for cellular infrastructures and a service tailored to the needs of smart metering. Our global partnership with leading telecommunications operator Vodafone Business confers service levels far beyond what a single carrier can offer, including a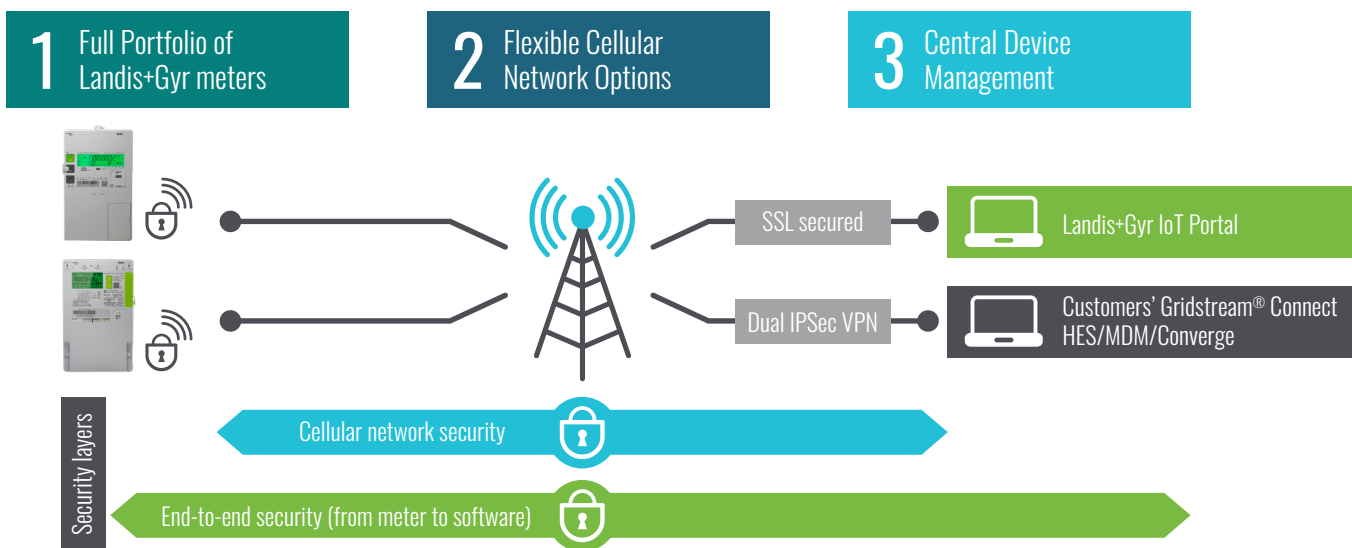 guarantee of service for lifetime of the smart metering infrastructure. Utilities do not have to manage multiple points of contacts or contracts and minimize integration and testing efforts. Instead, they can take advantage of our global supply agreement and benefit from a smooth integration process and best possible coverage without any additional roaming charges.

The solution architecture: Seamless integration and flexibility with end-to-end security

Landis+Gyr's cellular smart residential, commercial and industrial meters (E360, E570, E650, E660 and the data concentrator DC450) connect to 2G, 3G, 4G/LTE, LTE-M and NB-IoT. Communication technology is already integrated and pre-activated in the device delivered. It can also be retrofitted after deployment and works with

Landis+Gyr's data management software platform (HES, AIM and Converge). An included proprietary Landis+Gyr APN ensures a seamless and secure end-to-end solution from meter to backend. Optionally a private APN dedicated to a customer can be set-up ensuring one additional layer of secure operation and privacy.

Cellular P2P architecture for smart metering

IoT Connectivity as a Service packages: Light and Premium tariffs according to your needs

Service offerings: Light and Premium options according to your needs

IoT Connectivity as a Service	📶 LIGHT	💎 PREMIUM
Smart Meter	✓	✓
Integration with Gridstream Connect	✓	✓
Embedded SIM with global profile	✓	✓
SIM Card warranty	2 years	10 years
Single bundling including pooling	✓	✓
Residential meter (included per month)	1 MB	3 MB
ICG meter (included per month)	3 MB	5 MB
Data concentrator (included per month)	100 MB	250 MB
Data overage	price per MB	included
SLA: Device registration	SLO	99.5%
SLA: Network availability	SLO	99.5%
SLA: Network coverage	SLO	99.5%
Access to IoT Platform (read-only)	✗	✓
Reporting on SIM status	✗	✓

The Premium package can be extended with several optional services to meet customer-specific requirements. This can be either Integration of 3rd-party Head-End-Systems or the provision of a personalized customer private APNs. Additionally, to increase flexibility in connectivity, contract durations can be adjusted individually, data plans and included data volume can be designed flexible (like dynamic bundling) or SIM warranty can be extended.

Let's discuss your requirements and overcome your individual Connectivity Challenge together!

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