

An aerial photograph of a city at sunset, with a large green triangular overlay on the left side. The city lights are visible against the orange and blue sky. Overlaid on the green area are white lines forming a network of arcs and dots, suggesting a communication or data network. The text 'Landis+Gyr' is positioned in the upper left of the green area.

Landis+Gyr

Gridstream®
Connect Cellular
Communication
Solution

landisgyr.com

Flexible, Interoperable Cellular Solution for Utility IoT Networks

Landis+Gyr's turnkey LTE-M cellular solution is the newest communication addition to the Gridstream Connect utility IoT platform. This feature-rich cellular system provides a cost-effective end-to-end cellular option for smart grid communications. It also integrates seamlessly with existing Gridstream Connect implementations, adding to RF Mesh, Mesh IP, and PLC deployments.

End-To-End Turnkey Solution

The end-to-end, worry-free turnkey solution features Landis+Gyr's best-in-class hardware, comprehensive data plan, and managed cloud services.



Omni-Coverage Cellular Infrastructure

Through our omni-coverage solution, Landis+Gyr offers industry-best conditions and service level agreements for public cellular infrastructures that are otherwise available only with private infrastructure. This offers service levels beyond what a single carrier can provide, including a guarantee of service for the lifetime of cellular assets.

With Landis+Gyr's turnkey solution, the utility doesn't have to manage multiple contracts or separate meter inventory. Landis+Gyr's plug-and-play meters ensure resilient, full coverage – a single omni-carrier capable SKU can take advantage of multiple carrier network options, enabling automatic failover – if one network degrades or fails, the meter will switch automatically to another and continue transmitting. The meters arrive at the utility configured and ready

for installation, with no post-production configuration necessary. They perform auto-provisioning of the carrier network during installation, as well as auto-registration to the device and network management platforms.

The Landis+Gyr cellular data plan enables utilities to take advantage of our global supply agreements, ensuring there is no billing for undeployed meters, overages or roaming charges, and includes the hardware warranty in the SLA. With this turnkey solution, the utility operates the Landis+Gyr Command Center software, deploying the meters, conducting disconnects, and performing data extracts. Landis+Gyr provides device management (upgrades, disaster recovery, etc.), as well as end-to-end data and network operations management, while providing the utility with full visibility.



World Leader in IoT Communications

Landis+Gyr is a leader in IoT communications, with deployments supporting the full range of communication technologies, including cellular. For example, our deployment of 3.3 million cellular-enabled meters at Tokyo Electric Power Company (TEPCO), is a key piece of the largest utility IoT deployment in the world - featuring approximately 30 million connected devices.

Best-In-Class Cellular Meters

Landis+Gyr's industry-leading residential and commercial meters are cellular-enabled, and support over-the-air firmware upgrades and meter reconfigurations.

This includes:

- All forms of the residential FOCUS AXe meter, including the E351 model with first-of-its-kind 320-amp disconnect switch; and
- All forms of the S4x commercial meters, which can support both cellular and KYZ relay boards, and both sets of LP data.

Reduce TCO & Optimize Network Coverage

Now is a great time to take advantage of Landis+Gyr's turnkey cellular to streamline network management, optimize coverage, and lower TCO for both residential and commercial needs. Utilities with RF and/or PLC networks can improve network cost and coverage by adding a cellular component. Cellular can be used to fill gaps in RF coverage without costly network infrastructure build-out, or to exponentially increase data capacity for high-end PLC consumers. Wherever utilities want to prioritize next generation networks with grid edge capabilities, the Landis+Gyr turnkey cellular solution provides for a seamless technology refresh, regardless of the network type in use.

Transitioning from MV-90

Landis+Gyr's LTE-M cellular solution provides superior performance and stronger security, and enables a smooth transition from MV-90 at the pace that meets the utility's requirements. With easy-to-use software and push data capabilities, readings can be made available at any time, and the Landis+Gyr cellular solution provides application layer security that uses the AES CCM encryption algorithm, approved by NIST. Being able to make and execute a transition plan now eliminates the problem of spending money on new meters today that will become stranded assets when the time comes to make that transition.



Adaptable, Future-Ready Solutions for Utility IoT

Landis+Gyr's LTE-M cellular solution features the latest generation of radio technology as defined by 3GPP, the standards body that manages the evolution of global cellular standards. Landis+Gyr's LTE-M cellular meters fall within the 3GPP Narrowband Cellular standard, Release 13, under the 5G standard, so that the meters coexist with 5G networks, supporting the 4G to 5G migration plan while providing new and innovative capabilities. The meters optimize flexible and sustainable options for IoT communications, utilizing low power wide area (LPWA) radio technology for more efficient power usage and coverage, key factors in providing cost-effective cellular communications for smart metering.

Why Landis+Gyr LTE-M Meters?

Available 15-year Turnkey Deployment Contract

15-year endpoint design life and data services contract

Broad Carrier Options

Custom antenna supports many bands for flexible deployment models

Unmatched Coverage and Range

Optimized for maximum range – turnkey deployment option paired with 99.5% coverage

Designed for the Future

LTE-M meters designed for IoT cellular networks, protected from obsolescence

On-premise cellular deployment options are available for utilities who choose not to take advantage of Landis+Gyr's turnkey solution. Contact your Landis+Gyr sales representative for more information.

Let's build a brighter future together.

To learn more about partnering with Landis+Gyr, visit landisgyr.com, email us at marketing@landisgyr.com, or call us at 888-390-5733.

© July 2020 Landis+Gyr