Gridstream RF Mesh

Landis+Gyr
manage energy better

Advanced Grid Communications Network

Need a scalable network that can handle today's robust data management applications?

The Gridstream® RF network simply does more. Handles more messages. Connects to more sensors. Provides more control. And ultimately returns more to your bottom line. How? By supporting advanced multi-commodity metering, grid automation and home energy management applications – under a single network. Gridstream RF gives you the power to monitor and control, all while positioning your grid to meet future applications and standards requirements.

The innovative network is designed to support up to 5-minute interval data collections from residential and commercial meters, along with applications for advanced grid and load management.

Gridstream RF is a true mesh, peer-to-peer network where each endpoint, device and router extends the coverage and reliability of the network. It's also self-healing to provide dynamic routing of messages that automatically adjust for changes to endpoints and the introduction of obstructions such as foliage or new construction.
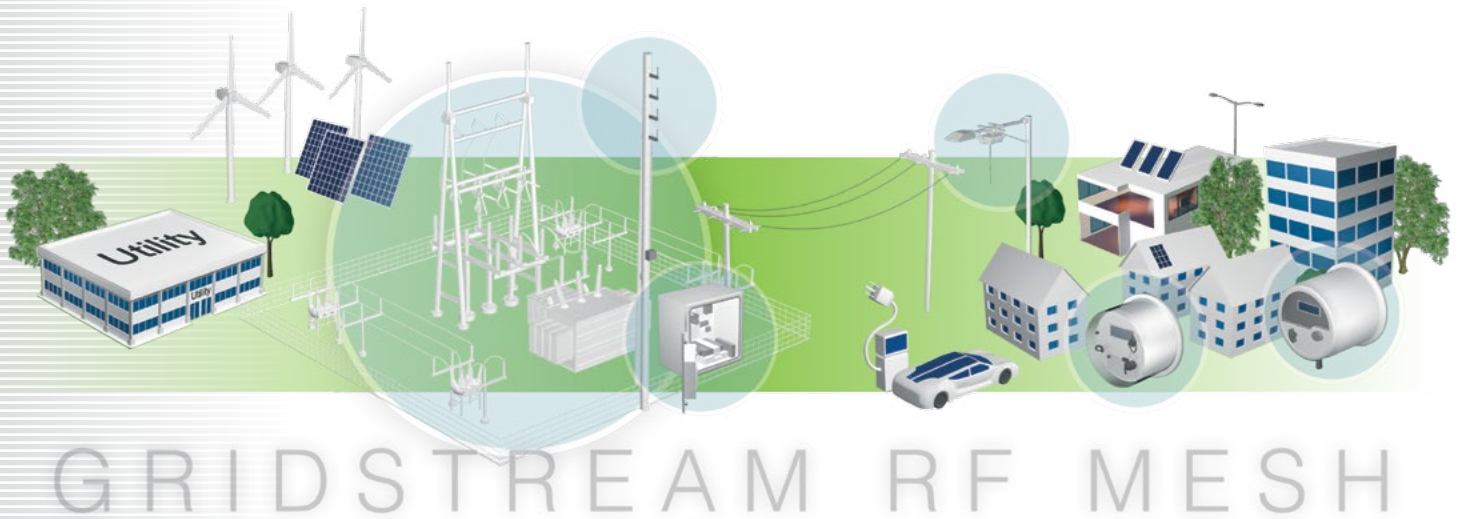
The system's routers are low power devices that extend network coverage and throughput. In addition, data collectors support up to 25,000 meters, which further minimizes infrastructure and maintenance costs.

From operations and engineering to customer service and billing, Gridstream delivers the applications that best define smart grid value.

HIGHLIGHTS:

- Best-in-class security
- Remote configuration of endpoints
- "Plug-and-play" auto-registering endpoints and devices
- Outage and restoration notifications
- Variable payment options, such as prepay and time-of-use rates
- Remote disconnect/connect with advanced FOCUS® meters
- ZigBee®-enabled home area network
- Theft detection
- Direct load control and dynamic voltage management
- Standards-based network components, software and software integration

:::Gridstream

GRIDSTREAM RF MESH

Gridstream RF Mesh Connects Utility Assets Across the Grid

Applications

Distribution System Analytics

Leverage voltage and power quality data to optimize performance and reliability and prevent outages before they occur.

Demand Response

Peak power management options include dynamic voltage management, time-based pricing programs and direct load control.

Remote Disconnect

Offset costs and improve operational efficiency through consumer-directed programs and the ability to perform immediate load-side disconnects.

Consumer Energy Management

Engaging the consumer through energy portals, home area networking and dynamic payment programs such as prepay, encourages energy efficiency and improves customer service.

Multi-Commodity and Scope

Two-way communication capabilities extend to water and gas modules, distribution devices and direct load control switches for a one-stop resource management package.

Outage Detection

Because endpoints are in continuous communication with the network, outage reporting and restoration detection are triggered automatically.

Integration with Most Applications

Realize secure and easy integration into existing utility operations. Utilizing a standards-based approach, Command Center (the operating software for the Gridstream system) and the Gridstream Meter Data Management solution enable interoperability with other utility applications like those used for CIS, billing, engineering, operations, analytics and data management.