



# Gridstream Connect<sup>®</sup> Apps Ecosystem

Fully Integrated, Open Application Ecosystem

# Unleash the Power of Data to Inform in New Ways

Landis+Gyr's Gridstream Connect Apps ecosystem is a flexible, secure platform designed to support an open development community and marketplace that allows for creation, purchase, sale, and management of apps. The ecosystem empowers a community of application developers to create edge apps and enables utilities to manage apps on the platform. This approach maximizes the value of the interoperable Gridstream Connect network and fully leverages the powerful edge processing capabilities of the Revelo grid sensing platform.

**With Gridstream Connect Apps, you can take advantage of applications to:**

- Enhance consumer engagement
- Optimize grid operations
- Increase energy efficiencies
- Identify new revenue streams
- Implement smart city applications

## Gridstream Connect Apps Ecosystem

The Gridstream Connect Apps ecosystem encourages innovation and competition to ensure continual improvement of the ecosystem, which is comprised of:



### APP STUDIO

*How Apps Are Developed*



### APP MARKETPLACE

*Where Apps Are Published, Bought, and Sold*



### APP MANAGER

*Tool for Managing Apps in a Network*



### APP LAB

*Developer Community Support and App Qualification*



## APP STUDIO

### *How Apps Are Developed*

App Studio is an intuitive Java-based Application Development Environment, that allows developers to code, build, edit, and debug apps. App Studio provides an SDK to simulate Revelo meters, as well as offering the option to purchase a physical development kit that includes a Revelo meter optimized for app development.

#### **Revelo Developer Kit: Virtual & Hardware**

- Virtual Revelo Simulator: PC-based Virtual Machine for fast meter app development
- Comprehensive set of APIs for meter app development
- Wi-Fi provisioning tools for wireless development interface
- Built-in waveform and load simulator
- Optional Hardware: Dev Kit with a physical Revelo Meter



## APP MARKETPLACE

### *Where Apps Are Published, Bought, and Sold*

App Marketplace enables app creators to publish apps and make them available to utilities for purchase. This is both the mechanism for publishers to track their sales, and for utilities to purchase apps. App Marketplace manages the applications catalog, tracks versioning and app usage, and manages subscription payment methods, reconciliation, and payouts.



## APP LAB

### *Developer Community Support and App Qualification*

App Lab supports App Studio, App Marketplace, App Manager, and the Developer Community. Before any app or update is added to the marketplace, App Lab reviews them to ensure they meet performance, security, data, and other standards.



## APP MANAGER

### *Tool for Managing Apps in a Network*

App Manager enables app provisioning and registration, managing communication and app status among the meters in a network. App Manager allows utilities to monitor the apps that are installed on their meters, and ensure apps are running as expected. It also manages the secure import, distribution, and installation of apps to endpoints, as well as updating and removal of apps, and provides diagnostic reporting and lifecycle management.



## DEVELOPER COMMUNITY

### *For Developers/Utilities Creating, Uploading, and Running Edge Apps*

The Developer Community connects app developers working in the Gridstream Connect Apps ecosystem, and provides a full range of resources for members. The Community provides documentation and resources, as well as access to the Community Forum, which provides members of the Community with a place to interact with other developers, to find and contribute answers to technical challenges, share experience and successes, and build a community-based knowledge resource.



# A Comprehensive Platform

## Unlock Limitless Potential for Edge-to-Enterprise Intelligence

Gridstream Connect Apps Ecosystem is designed to make it easy for utilities and their clients to leverage the wealth of energy information available via the meter as a sensor. Our goal is to empower a community of application developers, and to enable utilities to manage apps on the meter, all supported by an ecosystem that allows for creation, purchase, sale, and management of apps. Apps developed with App Studio are made available in App Marketplace. From there, the utility admin imports them into App Manager for device provisioning and registration, and ongoing application lifecycle management. The apps are then downloaded to endpoints via the AMI network. This open application ecosystem also supports a robust Developer Community, where members can share technical information, successes, advice, tips and tricks, to create a broad user-informed knowledge base.



### Let's Build a Brighter Future Together.

Since 1896, Landis+Gyr has been a global leader of energy management solutions. We've provided more than 3,500 utility companies all over the world with the broadest portfolio of products and services in the industry. With a worldwide team of 1,300+ engineers and research professionals, as well as an ISO certification for quality and environmental processes, we are committed to improving energy efficiency, streamlining operations, and improving customer service for utility providers.