



Submetering

Automatic Meter Reading (AMR) for Multifamily Housing

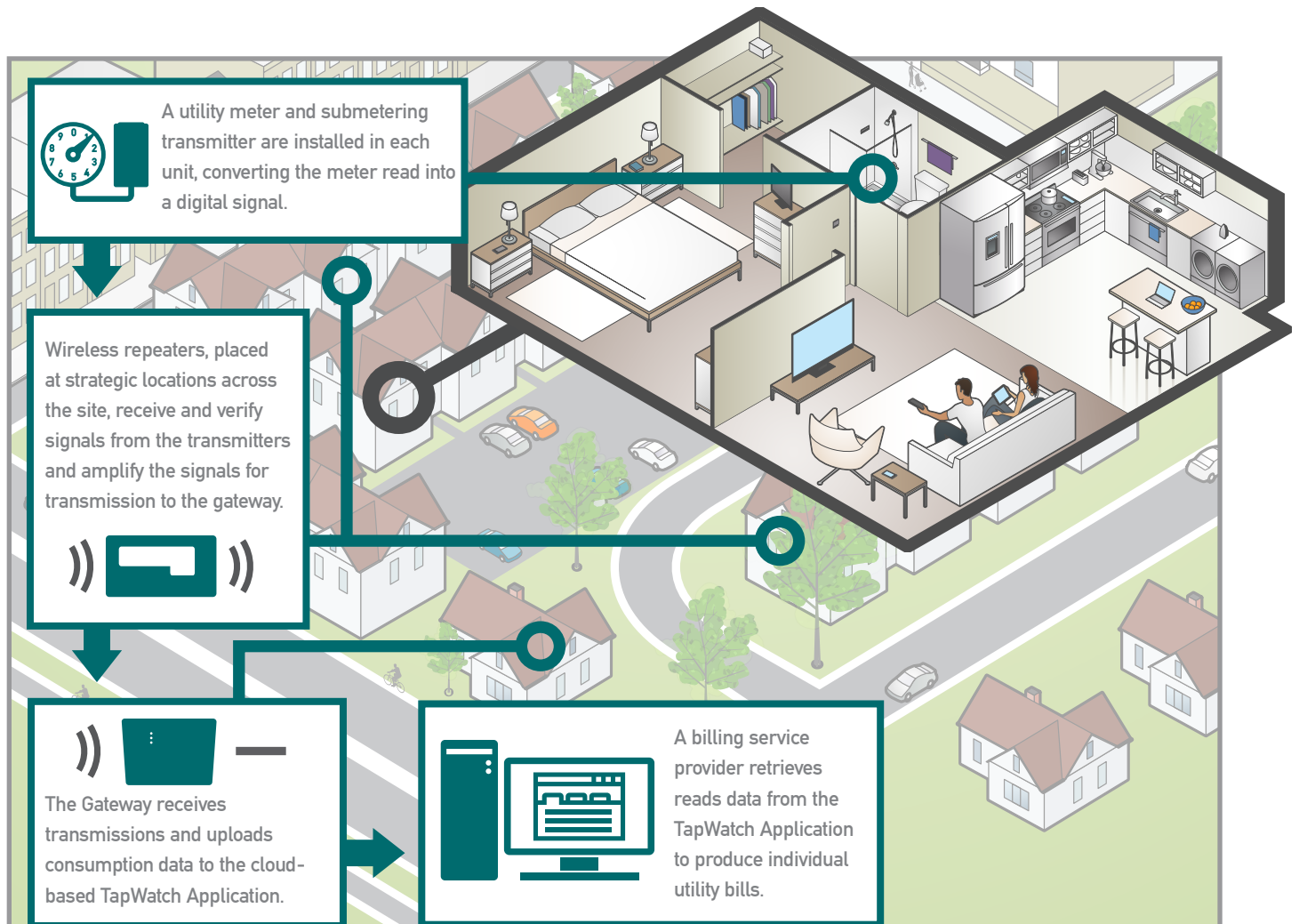
TapWatch is a cloud-based application for generating out files from IP-connected Inovonics submetering systems in support of submetering providers' utility billing operations.





How TapWatch® Works

TapWatch makes reads data and supervisory messages from Inovonics submetering systems available to a billing system in two ways. Submetering providers can generate out files through the TapWatch application or pull out files directly from the Inovonics Cloud using TapWatch APIs. Submetering system installers and providers also use TapWatch to configure and troubleshoot a site.





Property Owner Benefits

Flexibility in Choosing a Billing Provider

With over 2 million Inovonics pulse meter transmitters installed since 1997, Inovonics is not only the wireless multifamily submetering systems pioneer but also the most widely deployed system in the United States and Canada. Property owners get the accurate utility billing their tenants require with the flexibility to work with a broad portfolio of the nation's leading billing providers, backed by a nationwide network of trained technicians.

Billing Provider Benefits

Submetering System Reliability

With decades of proven performance, operating in thousands of properties, Inovonics has set the standard for wireless multifamily submetering systems. With Inovonics, billing providers can focus on their billing application and not the hardware.

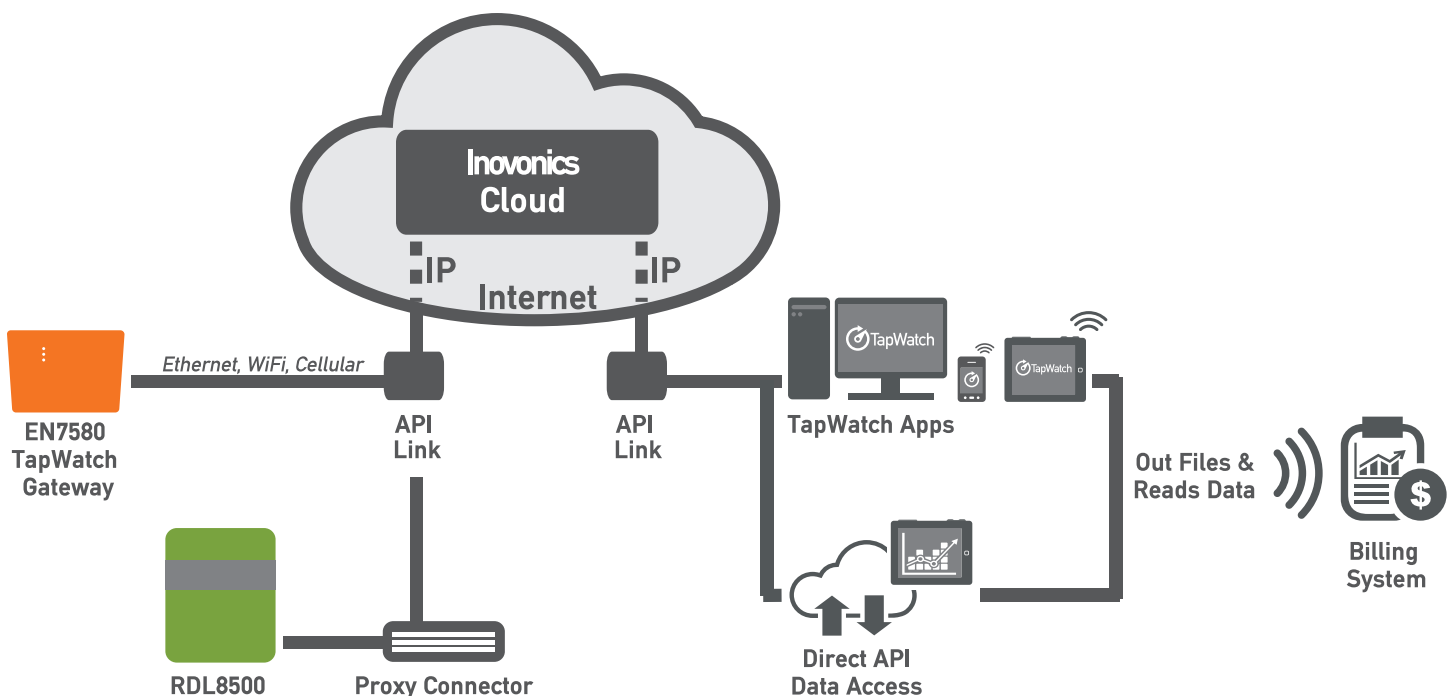
Installer Benefits

Ease of Installation and Maintenance

Inovonics hardware installs in minutes, with the ability to access TapWatch from any IP connected device to quickly configure a system, run a flow test and troubleshoot a property, either on site or remotely.

Submetering System Components

Transmitter signals are sent to the Inovonics Cloud via the TapWatch gateway or an IP-connected remote data logger (RDL). An authorized billing company accesses the data through the TapWatch application or APIs, generating an out file to produce individual utility bills.



Pulse Meter Transmitter

The **EN1501** provides a means for tracking and transmitting consumption information. As the meter measures the amount of water, gas, or electricity used, the resulting pulses are counted and transmitted to the remote data logger.



PMT with Extended Life Battery

The **EN1501-XL** includes all of the functionality of the standard pulse meter transmitter, and adds a high capacity battery that is good for up to 20 years of operation.



Pulse Meter Transmitter Board

The **EN1501EXT** pulse meter transmitter for integration is a board-only transmitter with external header pins. It is designed for integration into a customer-designed meter or product.

* Special use conditions apply



Encoded Pulse Transmitter

The **EN1550EP** converts data from a Neptune E-CODER[®], ProRead[™] or ProCoder[™] register into a pulse count, making it the ideal choice for utility billing service providers when submetering a mixed-u: or light commercial property.



High Power Repeater

The high power repeater amplifies transmissions from any transmitter. Multiple repeaters can be used to provide campus wide coverage.

High Power Repeater with Transformer **EN5040-T**

Without Transformer **EN5040**

Weatherproof Enclosure **ACC650**



TapWatch Gateway

The **EN7580** provides the reliability of Inovonics submetering hardware with the anytime/anywhere access of the cloud. Using the TapWatch gateway, providers can directly access reads data for integration into billing software, or manually access reads data through the TapWatch application.



TapWatch Gateway Lite

The **EN7581** provides the reliability of Inovonics submetering hardware with the anytime/anywhere access of the cloud. Using the TapWatch gateway lite for smaller residential or light commercial properties, providers can directly access reads data for integration into billing software, via TapWatch APIs, or manually access reads data through the TapWatch application.



About Inovonics

Inovonics is the leading provider of wireless submetering systems, deploying its products on a scalable supervised wireless network designed specifically for multifamily properties. Inovonics' commercial wireless network provides multifamily owners and managers with a technologically advanced wireless infrastructure to implement an effective submetering solution.

To learn more about submetering and Inovonics' unique wireless products for the multifamily industry please contact us at 800.782.2709, sales@inovonics.com or visit our website: www.inovonics.com.