EA_Mobile™

The Simple and Logical Approach for AMR-to-AMI Migration

Steering utilities toward the future

For utilities seeking to reduce operating expenses, improve reliability and boost customer satisfaction, the move to a fixed network advanced metering infrastructure (AMI) solution is a foregone conclusion. When and how to deploy one, however, is not quite as certain.

Rapid modernization can be costly, disruptive and burdensome for many organizations. For utilities facing AMI-related challenges associated with geography and sparsely populated service areas, it's easy to understand why some may simply not be ready to make the transformation to a full-scale, fixed network just yet.

Fortunately, there's an alternative that enables your utility to migrate from automated meter reading (AMR) to an AMI in incremental, economical, manageable and flexible stages. It's called EA_Mobile: the advanced drive-by solution for Honeywell's EnergyAxis® system.

It's a smart, seamless path to your inevitable future.

From mobile, to mixed, to fixed – on your terms

By smoothly integrating Honeywell's proven, AMI-enabled electricity, water and gas endpoints with our robust mobile data collection system and your utility's existing headend, EA_Mobile allows you to begin accruing the advantages promised by an AMI today, while charting your course to even bigger gains via a two-way, fixed-network tomorrow.

What's more, EA_Mobile protects your technology investment against obsolescence throughout the transition. Because unlike AMR modules that typically communicate in one direction only, the endpoints integral to EA_Mobile are fully functional AMI devices that communicate bi-directionally whether they are part of a fixed or mobile network. That means when it's time to migrate to Honeywell's two-way AMI EnergyAxis system, the state-of-the-art meters required will already be in place – no repurchasing or reprogramming required.

Better yet, with EA_Mobile, when you're ready to make the transition from the drive-by solution to the fixed network, you don't have to do it all at once, or even throughout your entire service area. Instead, you'll have the flexibility to operate a hybrid system – conducting drive-by readings in some areas, and communicating over the mesh in others – as you incrementally make the progression to a full-scale AMI.

EA_Mobile is built on the same radio frequency communications technology used in the fixed network EnergyAxis system.

BENEFITS

| Consider the advantages. With EA_Mobile, your utility can not only read more meters more accurately, but also: | Efficiently collect interval data to increase operational efficiency and improve customer service. | Perform mobile connects and disconnects.

Collect time-of-use registers. | Identify theft and tampering and reduce associated revenue losses. | Quickly and efficiently identify meter types and read status.

Generate reports to efficiently manage your utility and respond quickly to customers. |

EA_Mobile

The Logical, Sequential, Economical AMR-to-AMI Migration Path

Mobile	Hybrid (mobile and fixed)	Fixed Network
Walk or drive by. kWh and kW demand. Interval data. Connect/disconnect. Tamper/leak/sevice alerts. Route support. Off cycle reads. **Equipment needed:** Meters. Handheld readers. Vehicle readers. Route Manager software.	**Ideal operational transition phase from mobile to fixed** Read/operate with mobile device and/or read/operate over the network . **Easy deployment:** Meter-based gatekeepers. Self-registering meters. Self-healing network. No site visit. Seamless switch from mobile to fixed with no reprogramming. **Affordability:** Low-cost collectors. Rural reach of network. Low-cost scalability.	Near real time: • Reports/dashboards • Grid awareness • Alerts Monitor system assets. Rate choices. Batch processing disconnects. Improved customer service. **Equipment needed:** Same meters. Gatekeepers. Backhaul communications. Network head end system.

Benefits driven by data

As Honeywell's fourth generation two-way mobile data collector, EA_Mobile is built on the same radio frequency communications technology used in the fixed network EnergyAxis system. So it's not just portable and affordable; it's exceedingly capable – quickly and reliably gathering consumption and tamper data from radio-based endpoints for electricity, gas and water. Consequently, your vehicle can travel at the residential speed limit while capturing data that will be automatically transferred to your utility's billing, customer information and other enterprise systems.

Travel-size system, Full-size performance

Good things do indeed come in small packages. In fact, EA_Mobile is contained and transported in a wheeled case that can be transferred between vehicles and which features:

Communications modules that process individual meter data, including:
- Message-level encryption for data protection
- Current meter reading
- Current billable read or snapshot of 35 daily water or gas index readings
- Leak alarm (water)

Mobile collectors to communicate with the modules and collect meter data

Handheld data collectors (EA_Installer)

Honeywell's Route Manager software to:
- Create and manage accounts, routes and devices
- Process and transfer meter data to the utility's billing, customer information system (CIS) or other enterprise systems

GPS receiver to track its position and any meters within the communications range

Vehicle laptop video display (EA_VID) that:
- Informs the operator of meter status and progress made along route
- Shows detailed information about each account via real-time reporting capabilities
- Allows operator to ensure all meters are read before leaving an area

Honeywell