



Field Tools

For North American Gas and Water ERTs

The smartphone mobile app for installation and validation tools used with Itron smart metering technologies

Accuracy and efficiency of meter data collection in today's evolving Automated Meter Reading (AMR) and Advanced Metering Infrastructure (AMI) world relies on properly programmed and configured Itron ERTs and meters. Field Tools for North American gas and water ERTs is the next generation mobile app for use on iOS, Android and Windows 10 and 11 mobile devices for installing and validating Itron gas and water ERTs and meters. This new mobile app builds on decades of programmable metering experience, to ensure your devices are configured correctly to gather data from energy and water usage and communicate with upstream smart technologies such as the Itron OpenWay® Riva™ or Gen5 networks resulting in accurate billing.

Field Tools brings installation and validation capabilities to your iOS, Android or Windows 10 and 11 smartphone, laptop or tablet, and includes the ability to synchronize new configurations in the Field when connected via cellular or Wi-Fi to an IP network. The Field Tools mobile app supports both in-Field and meter shop operations to configure Itron devices for proper meter data collection. Validation checks can also be performed to troubleshoot problems with existing, previously installed devices. Field Tools currently works with the Itron hosted FDM Tools server for the basic operations of reading, checking and programming legacy and new gas and water ERTs and meters. Most utilities purchasing and installing Itron devices can use Field Tools by synchronizing to one of the Itron hosted multi-tenant FDM Tools servers, free of charge. Value-added features may be available with an additional fee-based subscription.

OVERVIEW

Field Tools mobile app allows a Field Service Representative or Field worker to perform various basic metering and troubleshooting tasks with Itron gas and water ERTs including:

- » Configuring device telemetry parameters
- » Configuring communication modes
- » Changing from mobile to network mode
- » Reading meter data*
- » Reading Tampers
- » Checking meter configurations
- » Intelis Gas meter Connects and Disconnects

*Note: Field Tools is not a meter reading solution and does not store meter reading data for export to a Customer Information System (CIS) for billing purposes.

The FDM Server Client allows utilities to manage and view many of the options and configurations necessary for Field Tools operations, including:

- » User roles and permissions
- » ERT configurations
- » Meter configurations
- » Utility ID
- » Wake-up Tones
- » PCOMP values
- » High Flow Threshold values
- » High Temperature Threshold values
- » Network IDs & SSIDs

The FDM Server Client runs on any Windows 10 PC connected to the Internet to access the Field Tools server.

ADVANCED VALUE-ADD FEATURES

Advanced features are those that reduce effort; increase safety; improve convenience; provide advanced troubleshooting tools; and assist in conservation, revenue protection, and customer service. Access to these features requires a paid subscription. The following features are now supported in the subscription model, with more features and support coming later.

- » Extract Interval Data, in Mobile modes
- » Secure Device Lists
- » Advanced Diagnostics

SUPPORTED MOBILE DEVICES

Field Tools mobile app operates on any iOS or Android smartphone or tablet running one of the following versions:

- » iOS 10 and higher
- » Android 8.0 and higher
- » Windows 10 (Build 16299 and higher) and Windows 11

Itron recommends the Honeywell Dolphin CN80 Mobile Computer now shipping with Android 9, which can be supplied by Itron.

An Itron Mobile Radio (IMR) must be used to communicate with Itron ERTs. Supported radios include:

- » IMR (no Wake-up support)
- » IMR2 (supports Wake-up)
- » IMR-FT

SUPPORTED ERTS*

Field Tools for North American Gas and Water ERTs supports the following Itron metering technologies with more to come:

Gas

- » Itron Cellular 500G Module
- » Gen™5 500G ERT® Module
- » Gen™5 Intelis™ 250 Gas Meter
- » OpenWay® Riva™ 500G ERT® Module
- » OpenWay® Riva™ Intelis™ 250 Gas Meter
- » Itron 100G ERT® Module
- » Itron 40G and 40GB ERT® Module

Water

- » Itron Cellular 500W Module
- » Gen™5 500W ERT® Module
- » OpenWay® Riva™ 500W ERT® Module
- » 100W ERT® Module
- » 60W
- » 60WP
- » 50W (Wakeup & Bubble Up)

* Note: Not all features of all ERTs or meters are supported at this time



CN80



Itron Mobile Radio



Gen5 Intelis 250 Gas Meter



ChoiceConnect 100G and Gen5 500G ERT modules



Itron Cellular 500G Module



100W Series Water ERT modules



Gen5 500W and OpenWay Riva 500W ERT Module



Itron Cellular 500W Module



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