



FDM Tools

Installation and Troubleshooting Tools for Itron smart metering technologies

In today's evolving Automated Meter Reading (AMR) and Advanced Metering Infrastructure (AMI) world, accuracy and efficiency of meter data collection is paramount. Itron meters, ERT[®]s, endpoints, and modules need to be properly configured to gather data from energy and water usage and communicate with upstream smart technologies such as the Itron OpenWay[®] Riva or Gen[™]5 networks. FDM Tools is the premier Itron application, built on decades of programmable metering experience, to ensure your devices are configured correctly, allowing you to properly bill your end users and analyze metering data with your head-end system.

FDM Tools supports both in-field and meter shop operations to configure Itron devices for proper meter data collection. Additional features allow a utility to troubleshoot problems with existing, previously installed devices. A subset of the Field Deployment Manager (FDM) suite of products, FDM

Tools uses a Mobile application for field and meter shop operations, and a Server application for supervisors and managers to create and manage meter configurations and users. Most utilities purchasing and installing Itron devices can use FDM Tools from 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. Enhanced Security features are available by purchasing an Itron Security Manager (ISM) and attaching it to your FDM Tools Business Unit.

OVERVIEW

FDM Tools Mobile application allows a Field Service Representative or field worker to perform various basic metering and troubleshooting tasks with Itron gas, water and electricity meters, endpoints, ERTs, telemetry devices and smart Network Interface Cards (NICs) including:

- » Configuring device telemetry parameters
- » Configuring communication modes
- » Changing from mobile to network mode
- » Validating network configuration
- » Reading meter data*
- » Reading Tamperers
- » Checking meter configurations
- » Firmware download on select devices

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

- » User roles and permissions
- » Endpoint configurations
- » Meter configurations
- » File Snapshots
- » OpenWay Riva SSID
- » Utility ID
- » Wake-up Tones

» PCOMP values

*Note: FDM 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 Tools Server application runs on any Windows 10 PC connected to the Internet to access the FDM Tools server.

FDM Tools with Enhanced Security supports all FDM Tools features and integrates an Itron Security Manager. Itron's security methodology secures all communications to and from Itron meters, endpoints and telemetry devices that support security.

SUPPORTED MOBILE DEVICES

FDM Tools Mobile application operates on Itron FC300 handhelds with built-in radio, or other select communication devices attached to a laptop or tablet running the Windows 10 operating system. Itron recommends the Panasonic FZ-G1 and FZ-M1 Toughpad tablets, which can be supplied by Itron.

When using a laptop or tablet computer, an Itron Mobile Radio (IMR) or legacy 900MHz Belt-Clip Radio (BCR) must be used to communicate with most Itron endpoints, ERTs, meters and other devices. To communicate with some Itron OpenWay

ERTs and other meters, an Optical Probe, Wi-Fi or ZigBee dongle connected to a USB port may be required.

SUPPORTED METERS, ENDPOINTS AND MODULES

FDM Tools supports the latest in Itron metering technologies including, but not limited to:

- » Itron OpenWay Riva 500G ERT Module
- » Itron OpenWay Riva 500W ERT Module
- » Itron OpenWay Riva Electricity Meter
- » OpenWay CENTRON
- » CENTRON Bridge
- » Intelis Gas Meter
- » Gen5 500G ERT Module
- » Itron 100G and 100W ERT Modules
- » Itron 60W and 60WP ERT Modules
- » Itron 40G and 40GB ERTs
- » Many other legacy endpoints and meters

Need More?

Customers needing a tool that collects and stores installation, change-out or field service data such as GPS coordinates, photos, meter data and more, should consider Itron's fully featured Field Deployment Manager Workorders system.



Panasonic FZ-M1 Tablet



Windows 10 Laptop



Itron Mobile Radio



Wi-Fi and ZigBee Dongles



OpenWay® Riva Electricity Meter



Intelis Gas Meter



OpenWay Riva Water Module



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