

## TANTALUS ERT MIGRATION: A SCALABLE, FLEXIBLE TRANSITION FROM AMR TO AMI THAT LEVERAGES EXISTING INFRASTRUCTURE & ASSETS

### 5 REASONS TO MIGRATE FROM AMR TO AMI WITH TANTALUS:

1. Logical first step to two-way smart grid
2. Access to advanced AMI applications
3. Increase ROI of current ERT investments
4. Reduce capital and operational expenses
5. Leverage access to near real-time energy data to enhance value across all utility departments

Automated meter reading (AMR) – through one-way solutions such as Itron ERT® (encoder receiver transmitter) technology – has improved utilities’ ability to read meters more quickly. Advanced metering infrastructure (AMI) technology provides additional benefits, including the ability to access energy data with more frequency and granularity, which is essential to enabling advanced utility applications. The challenge facing many municipal and cooperative utilities now lies in finding a practical and proven path forward from AMR to AMI.

TUNet® – the Tantalus Utility Network – empowers utilities to build on existing AMR groundwork to take immediate advantage of operationally efficient AMI advanced applications **at just a fraction of the time and cost of an immediate full deployment.** TUNet presents a measured, practical approach in the migration to smart grid – one step at a time. **Typical TUNet deployments require a replacement of as little as 15% of meters and allow utilities to recoup a significant amount of value from existing investments.**

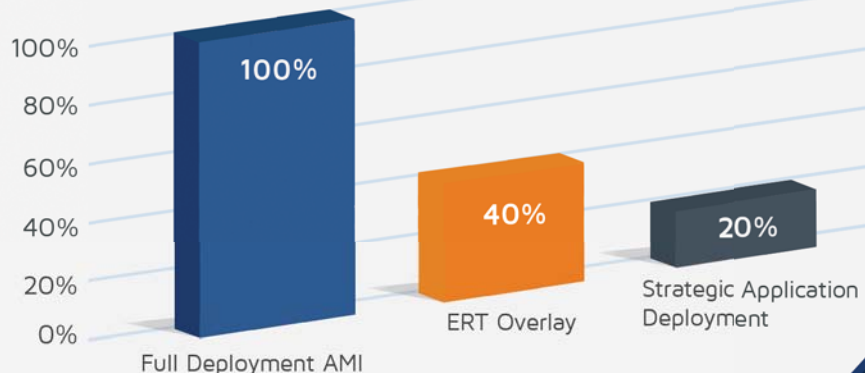
Tantalus and Itron have developed an enhanced platform to **remotely read existing electric, water, and gas ERTs** with the Tantalus Utility Network (TUNet®), a flexible and low-maintenance two-way AMI solution. This migration option allows utilities to leverage existing 100W, 100G, 60W, and R300 ERT assets with MV-RS® integration to TUNet to immediately enable the latest in smart grid applications for electric, water, and gas utilities, such as remote connect/disconnect, prepay, and demand/load management.

*Tantalus offers a unique approach to Smart Grid. Unlike other solutions, TUNet is designed to offer maximum flexibility and utility choice in the financial justification, design, and implementation of technology adoption in order to help utilities identify their most advantageous next step from traditional one-way AMR. Unlike other solutions, TUNet is designed to be strategically deployed based on specific business drivers as determined by each utility.*

### COST COMPARISON

Full Deployment vs.  
ERT Overlay vs.  
Strategic Application

\*Representative of typical public power utility of around 25k meters.

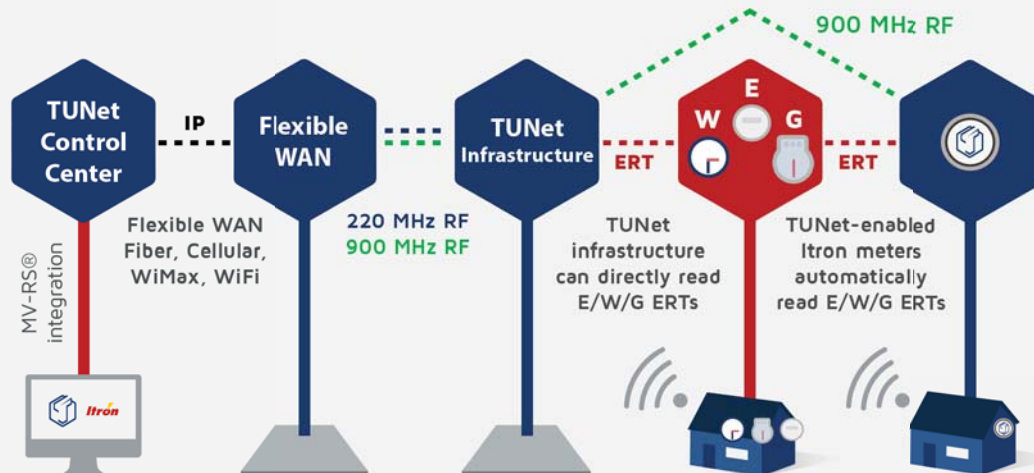


# TUNET:SMART GRID FOR PUBLIC POWER UTILITIES

The Tantalus Utility Network (TUNet®) is an award-winning multi-application technology platform with more than a decade in field-proven performance over some of the continent's most challenging terrain. TUNet's flexibility, performance, and functionality are unmatched – it is the industry's most customizable AMI solution available. Tantalus works with your utility to strategically deploy TUNet enabled meters to support advanced AMI applications where they can add maximum value.

Tantalus ensures full and cost-effective connectivity and coverage – particularly in rural, mountainous, or remote service areas. TUNet works by leveraging the optimal combination of IP-based communications (e.g., Fiber, WiMAX, WiFi), ultra long-range 220 MHz, and 900 MHz wireless RF. With powerful, distributed computing power and TRUPush™ command & control technology embedded at the endpoint, TUNet is the most intelligent and future-ready platform commercially available. TUNet is purpose-built to support multiple applications that effectively address ever evolving utility challenges.

## TUNET + ERT DEPLOYMENT



ERTs can be read by TUNet meters and/or directly with TUNet infrastructure



## Solution Features

- Itron CENTRON® II meters with factory-integrated TUNet modules
- Supports 100W, 100G, 60W, and R300 reading
- Seamless integration with Itron MV-RS®
- Integration to billing via MultiSpeak®, MDMR, and file exports
- Automated daily and hourly interval reads
- On-demand reads for electric, water, and gas
- Field-initiated tamper, outage, and restoral notification
- Enables enhanced water and gas leak detection
- Supports net metering
- Supports remote connect/disconnect under glass



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