

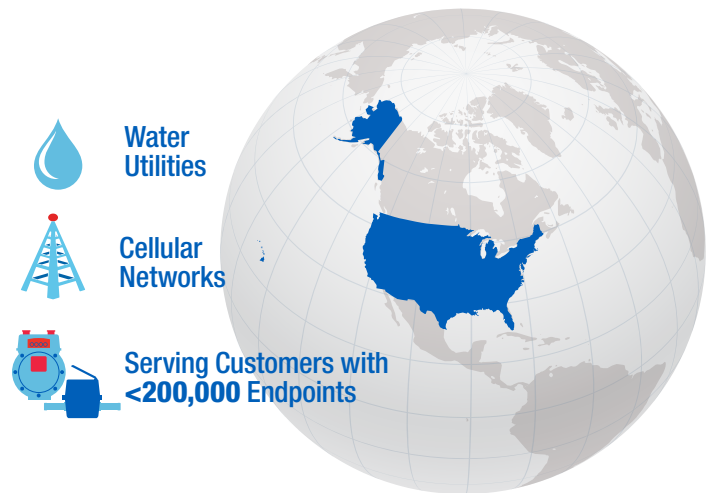


AMI Essentials

Deploy and unlock value-based outcomes, and establish a foundation for your smart water distribution networks

For small- and medium-sized water utilities that provide utility service to tightly knit communities, an Advanced Metering Infrastructure (AMI) deployment doesn't have to be a multi-year, functionally overwhelming and organizationally staggering experience. AMI Essentials for water is Itron's standard bundled AMI solution, tailored to better serve small- to- medium-sized water utilities in the United States. Through AMI Essentials, you can reap benefits with the following use cases:

- » **Detailed data collection:** Your meter-to-cash operations benefit from frequent and detailed data collection, such as daily register reads and hourly interval data.
- » **Move-in and Move-out:** Performed over the network from the back office.
- » **Real-time alarms:** Itron Cellular 500W water endpoints provide real-time alarm/event notifications, which help you promptly identify field issues, maintain a healthy network and gain insights to anomalies.
- » **Customer service:** Your Customer Service team can quickly access account data and visualize customer usage to improve call center support and quickly resolve billing issues.
- » **Customer engagement:** The customer web portal allows your customers to monitor their usage over time (for budgeting). It also proactively issues alerts to customers to notify them of abnormal usage and to help reduce billing complaints.



Itron's bundled Cellular AMI offering for the United States market with a focus on small- and medium-sized water utilities.

- » **Flexible billing support:** Daily data exports from Temetra to your customer information system (CIS) enable you to offer more flexible billing options to your residential and commercial customers.
- » **Remote service shutoff:** Over-the-air (OTA) remote valve shutoffs enable highly efficient shutoff operations, eliminating the need to roll a truck.
- » **Flexible deployment options:** Flexibility to deploy a cellular solution to high-value C&I customers and hard-to-access mobile reading routes.

SOLUTION ELEMENTS

Itron AMI Essentials for water is a fully integrated, end-to-end AMI solution that includes a cellular network communications platform with Itron cellular water communication modules (endpoints), hosted software and deployment services. Water distribution modernization begins with AMI and advanced metering devices such as Itron's battery-powered Cellular 500W Module as the key foundational elements. With a robust and reliable AMI system, you can unlock advanced capabilities, realize operational value and transform your business to face new challenges head on.

Reliable Network Communications Platform

With a cellular AMI solution, utilities benefit from an existing, highly reliable, cellular network infrastructure maintained by Verizon®, one of North America's largest cellular operators. Itron is actively working to add additional Tier 1 carriers to our portfolio. AMI Essentials offers a highly cost-effective solution for augmenting your existing Mobile Automated Meter Reading (AMR) service. This approach is ideal for supporting high-value commercial and industrial (C&I) accounts, reaching hard-to-read mobile routes or for replacing your existing AMR endpoints with cellular endpoints as they reach their end of life. AMI Essentials comes bundled with everything you need and is fast and easy to deploy.

Endpoints

This cellular-based AMI solution offers advanced two-way communications over the latest generation cellular network and technologies. Our cellular communication modules also support RF communications, enabling you to easily migrate from mobile AMR to cellular AMI operations and deploy in diverse service areas and territories. With the solution's complementary cellular and RF communication technologies, you can deploy Itron's AMI network side-by-side in hybrid configurations that include RF Mesh and cellular endpoints. This approach ensures maximum efficiency and reliability in both high-and low-density meter populations.

Itron's water ERTs are made in the USA, backed by industry leading warranties and designed for a twenty-year asset life.



Cellular 500W Module Standard Configurations Options

To enhance customer engagement and simplify the ordering process, Itron implements two (2) standard configurations for Cellular 500W Module.

Endpoint Type	Interval (Minutes)	Reads per Day
Cellular 500W Pit	15	4
Cellular 500W Remote	15	4

COMMAND AND CONTROL FROM THE BACK OFFICE

Temetra's straightforward approach to integration facilitates data exchanges with other back-office business systems that rely on specific metering and event data. Such systems include billing systems, asset management systems and work order management systems. These exchanges keep your back-office systems synchronized and ensure that your billing system receives the right data at the right time.

Deployment Services

Itron's experienced Global Delivery Services teams and certified channel partners provide the necessary services to manage the deployment of the AMI Essentials solution. These services include:

- » Project Management
- » Cellular Coverage Modelling
- » Temetra System Testing
- » Temetra Application Configuration
- » Temetra Application Training
- » Deployment Support and Training
- » Customer Support

Enterprise-Class Security

This new era of smart metering promises many exciting benefits, but it comes with the imperatives of increased security and privacy protections. Advanced service networks require advanced protection to ensure the availability, integrity and confidentiality of your data. Through industry-standard encryption, FIPS-certified X.509-based Public Key Infrastructure, automated key rotation and cryptographically signed firmware, Itron AMI Essentials secures data transmission at all layers to keep your devices, network and customer data safe from hackers, malware and other threats.

The Value of AMI Essentials

Itron AMI Essentials for water allows you to deploy AMI now and tackle the most critical, high-value business cases. This includes daily data collection to support meter-to-cash, remote connection and disconnection of service for move-in/move-out and credit/non-payment purposes, and real-time alarm/event notifications. This helps you to promptly identify field issues, maintain a healthy network and gain insights into abnormal behaviors.

As your business drivers expand and evolve, Itron AMI Essentials for water is built to grow with your ever-evolving needs and demands. Areas for growth include Water Revenue Protection, Water Leak Management and Water Conservation Management.



AMI Essentials for water, powered by Temetra, is a proven, bundled, cellular AMI solution, optimal for utilities with less than 200,000 metering endpoints. The AMI Essentials solution offers everything you need to quickly begin benefitting from the efficiencies and operational cost-savings of AMI-based utility services, while also laying the groundwork to support emerging industry needs and future use cases.

For more information, contact your Itron Sales Representative or local Channel Partner that distributes Itron solutions.

To learn more visit [itron.com](https://www.itron.com)

We create a more resourceful world

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