Itron

SensorIQ®

Turn your endpoints into smart sensors

Overview Brochure

SensorIQ turns your endpoints into smart sensors by providing high-resolution data and real-time alerts from smart electricity meters, load control switches and streetlights to manage a variety of analytics use cases outside of the meter-to-cash data flow. This enables you to realize significant savings for grid-related uses cases such as VVO/CVR, proactively manage potential safety issues such has high meter temperatures, improve asset failure prediction accuracy, and perform near real-time analytics and alerting. Examples of uses cases leveraging this high-frequency data include:

- Grid & power quality operations
- Revenue protection
- Customer service
- Demand response
- Demand-side management

SensorIQ provides a flexible architecture for gathering granular meter or endpoint data to support analytics use cases. SensorIQ enables you to:

- Manage a variety of analytics use cases beyond traditional meter-to-cash
- Sample data collection on the NIC
- Define sensors by profiles: voltage, usage, power, temperature, etc.
- Define sampling rates by user
- Determine read job frequency or alarm by exception

SensorIQ turns your endpoints into smart sensors by providing high-resolution data and real-time alerts from smart electricity

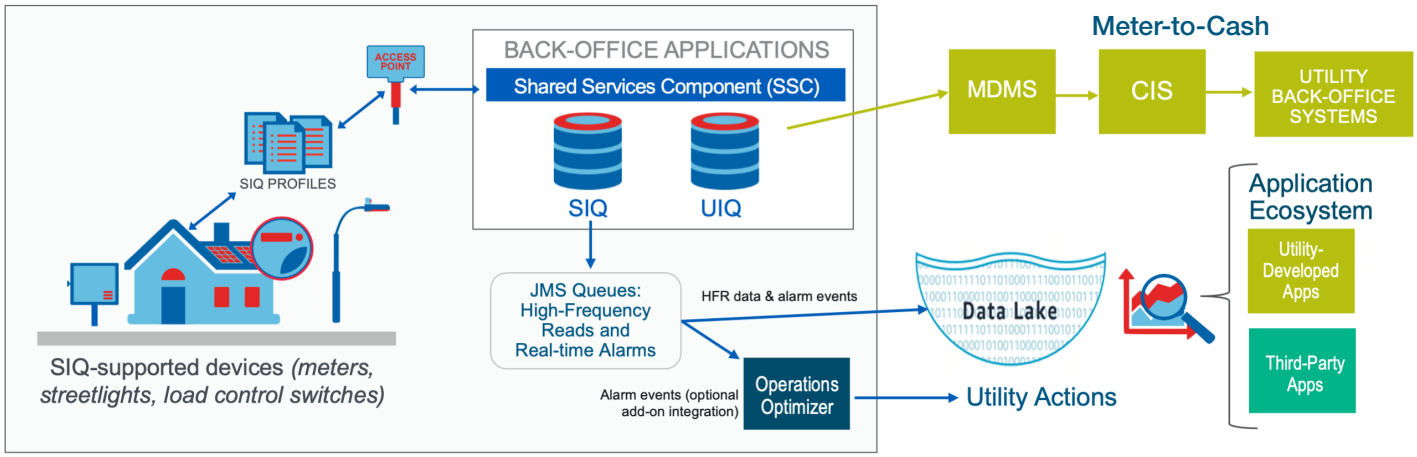

Figure 1 - SensorIQ data flow for back-office systems integration

With the SensorIQ user interface, you can easily create profiles that define what a "sensor" collects from the meter. An SIQ profile can define what type of data is collected on up to six native meter channels and three alarm channels. This reduces the complexity of profile configuration and provides simple, easy-to-create capabilities.

SensorIQ provides up to six profiles per NIC allowing the user to capture a wide range of data values. Below is a sample listing of some of the use cases SensorIQ data can support:

- **VVO/CVR –** monitor voltage at the end of a circuit
- **Power Factor Analysis –** monitor for leading/lagging kVARh
- **Power Quality Analysis –** collect high-resolution data from the existing NIC/meter
- **Residential Load Disaggregation –** engage customers with better energy insights
- **Commercial Energy Management –** gather, store and analyze high-resolution load and demand data

With SensorIQ, you can collect and analyze data from up to 6 million meters. Using Itron's Operations Optimizer analysis tools in combination with SensorIQ, you can quickly develop powerful analytic tools that provide insight and results to drive reliability and sustainability for your distribution grid and enhance satisfaction with your customers.

To learn more visit itron.com

We create a more resourceful world

Itron
2111 North Molter Road
Liberty Lake, WA 99019 USA