

# Sensor Management System (SMS)

## Grid Monitoring Software

Aclara’s Sensor Management System (SMS) is not just a software application; it’s a strategic tool in navigating the complexities of modern-day utility management. With its advanced analytics and comprehensive situational awareness, SMS is designed to elevate your operational standards, safeguard your assets, and enhance system reliability. Complemented by the robust Aclara Grid Monitoring sensors it forms a formidable duo that tackles distribution challenges head-on.

### SMS with Predictive Grid Analytics: Harnessing the Power of Intelligence

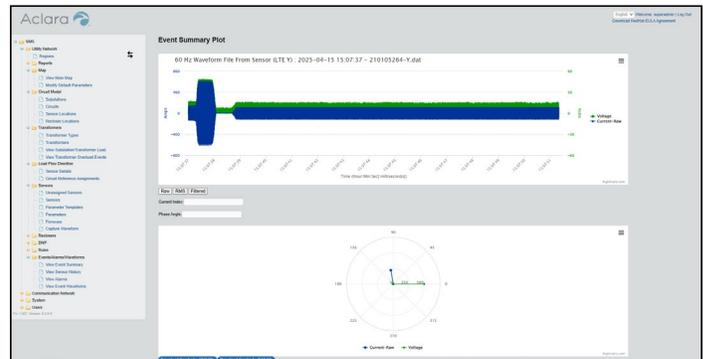
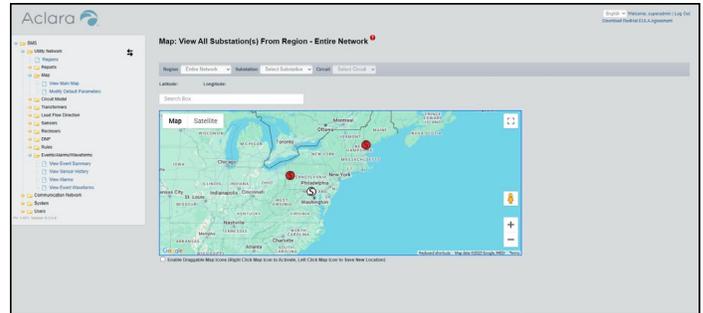
The software application is so intuitive that it not only collects data but interprets it through four sophisticated layers of analysis, ensuring unparalleled accuracy and effectiveness. That’s the power of Aclara’s SMS, it serves as a gateway to smarter, more efficient utility management. By aggregating data from thousands of sensors into a single streamlined connection to your DMS or Historian, SMS alleviates the heavy lifting from your other systems, allowing them to operate more efficiently.

Each sensor acts as your data gatekeeper, capturing and timestamping critical measurements and event waveforms. This data is then meticulously analyzed by the SMS software, pinpointing the exact nature of events unfolding across your distribution network. Only the most crucial, refined information reaches your core systems like the Historian, DMS, or SCADA, while SMS handles the rest. It filters out the noise, sending immediate alerts for significant incidents and logging subtler disturbances for further analysis. This not only enhances immediate response capabilities but also aids in long-term network understanding and outage prevention.

### Advanced Reports

With Aclara SMS, you’re not just monitoring your network; you’re gaining a deep understanding of it. The system offers detailed load monitoring and balance reports for circuits, enriched with configurable overload reports and alarms tailored to specific transformer ratings. These alarms notify and prioritize issues based on severity, guiding your response efforts where they are needed most.

Aclara’s SMS’s power quality analysis identifies your network’s underperforming circuits, directing maintenance crews precisely where their efforts can prevent potential outages. This proactive approach not only saves resources but also enhances customer satisfaction, with the Aclara Grid Monitoring solution providing promoting efficient resource management.



### Highly Accurate, Scalable Architecture with Flexible Deployment Options

Designed from the ground up for scalability and accuracy, the SMS allows for the seamless management of thousands of sensors. Its integration into your SCADA or DMS is smooth, thanks to the DNP3 interface, ensuring that sensor data is consistently reliable and timely. Whether the sensors transmit over cellular or wireless networks, the flexibility of SMS’s deployment—either onsite in a utility data center or as a hosted service—ensures it fits perfectly within any infrastructure, supported by the expansive capabilities of the Aclara Grid Monitoring solution.

Aclara’s SMS and Grid Monitoring sensor solutions equip utilities with software that allows you to operate more efficiently, reliability, and with foresight. The Aclara SMS software application doesn’t just help manage a network, it transforms it, preparing utilities for the challenges and innovations of grid infrastructure and modernization.