

Master Metering Using A Scada System

Presenter(s):

Jim Mimlitz, SCADAmetrics / Navionics Research

Abstract: The monitoring of master meters within the context of a SCADA (Supervisory Control And Data Acquisition) system can be a useful tool for billing bulk customers, tracking distribution, and detecting leaks in realtime throughout a potable water or wastewater utility. This paper details methods which a potable water utility may utilize to implement a SCADA master metering system. The described methods detail the integration of meter interface instrumentation, communication equipment, software, and custody transfer flow meters. Both cellular and extraterrestrial satellite data network communication techniques are considered. Design goals include the realtime delivery of revenue-grade-accurate consumption readings to operations personnel. Points of design emphasis included data accuracy, IT security, and minimization of up-front and recurring costs. Case study results of two implementations are presented.