

## Integrating Asset Monitoring to the Control Room via Ion7650 Meter



### The Challenge

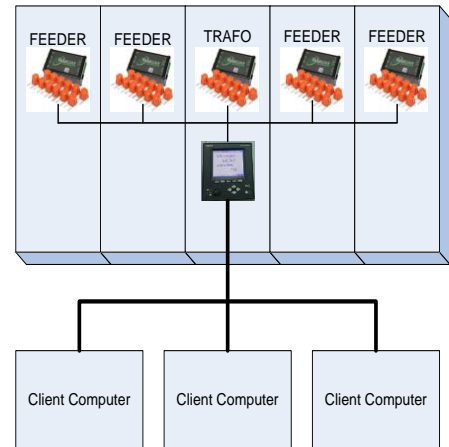
Frequently, customers want to add new asset monitoring to an existing SCADA network without incurring the expense or downtime associated with complex systems integration. In one such case, a Peruvian utility wanted to add temperature monitoring to the incoming transformer and feeders of a critical substation.

### The Opportunity

In one such example a client wanted to measure temperature of switchgear and transformer connections in 10KV distribution substation while viewing the data in the urban control room. It was noted that the transformer was already equipped with a PowerLogic™ ION7650 meter. This meter is capable of importing MODBUS data from slave devices and publishing it to the control room via Ethernet.

### System Details

The IntelliSAW IS-485 systems were outfitted into each switchgear cabinet and the transformer. A MODBUS-RTU network connected the IS-485 devices to a MODBUS Master port on the ION7650 meter, which allowed remote access from the control room.



### The Result

The utility is now able to monitor critical asset health of this distribution substation from anywhere on the corporate network by accessing the ION7650 as a server. This allows them to continue to operate aging equipment under a predictive maintenance model, avoiding catastrophic failures while minimizing maintenance downtime.

### Next Steps

The ION7650 can be programmed to display custom HMI screens for the slave devices and to publish the slave device data by proxy server onto DNP-3 or IEC-61850 networks.

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