



WHY DA?

The main goal of a DA program is to ensure reliability and quality of power service to customers. The Tantalus smart grid communication platform, TUNet[®], continuously collects data from field devices and responds to changing conditions by controlling a series of switches, capacitors, and voltage controllers. A successful DA program can pinpoint power outages, reduce maintenance costs, constantly monitor power quality, and save money by reducing line voltage. As of 2008, only 13% of US distribution facilities had an advanced DA program in place. Consequently, 87% of the distribution infrastructure lacks the automation necessary to fully optimize profitability¹. TUNet can help utilities take full advantage of their existing infrastructure to save money.



TANTALUS SYSTEMS INC. 1121 Situs Court, Suite 190 Raleigh, NC 27606 919.900.8970 www.tantalus.com

LEADING INDUSTRY INNOVATOR

Tantalus is a private company founded in 1989. Corporate offices are located in Raleigh, North Carolina and Vancouver, British Columbia. TUNet is Tantalus' smart grid communications platform that enables utilities to leverage AMI and other advanced applications. Tantalus' senior executives average more than twenty years of experience in the utility industry, and the company's financial position has been consistently strong over the last ten years.

GET IMMEDIATE RESULTS

TUNet empowers utilities to take full advantage of their current infrastructure by enabling the distribution system to work smarter.

✓ EXTENSIVE DA CAPABILTIES

Typical SCADA commands only extend to the limits of the fiber circuit, but TUNet integrates DA through the entire distribution system

✓ CONSERVATION VOLTAGE REDUCTION

Line voltages can be lowered during peak demand periods and raised during off-peak times to reduce line losses and save utilities an average of 2% of energy costs.

✓ OUTAGE RESTORATION

TUNet infrastructure detects and corrects momentary outages, and pinpoints trouble areas for ease of maintenance. Nearinstantaneous outage detection helps prevent outages and speed up recovery times▼



- ✓ COMMAND VERIFICATION TUNet provides verification that SCADA commands are executed properly
- ✓ LOW LATENCY ACROSS NETWORK TUNet makes direct connections between SCADA and any device on the system, while other networks must take alternate access paths
- UNIFIED COMMUNICATION NETWORK Typically several different communications systems are needed and compete for space, but the single TUNet platform supports all AMI requirements

AWARDS

Deloitte Technology Fast 50 GLOBE Environmental - Technology Innovation PowerGrid - Metering Project of the Year Deloitte Technology Green 15 Chartwell Award for Advanced Metering UTC Apex Award

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Substation Automation Survey. Newton Evans, 2008.
US Department of Energy. The Smart Grid: An Introduction, 2008. p5.