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DATA COMM FOR BUSINESS

Secure, Cost Effective Smart Grid Communications DCB Encrypted Bridge Products Solve the Problem

Along with the explosion of smart grid metering installations and green grid controls comes an inherent problem...how to communicate all that information back to the operations center in a secure, economical fashion. Most utilities installing smart metering have some type of broadband ethernet network in place.... BPL, Wifi, fiber, etc. But, often that broadband ethernet is used primarily for revenue generating public Internet offerings and office connections.

The smart-grid requires that information be communicated with the customer location in a cost-effective, secure manner that lets you get to the business of saving energy and improved efficiency. There's no time to wait for the future holy grail of communications products. Communications to the customer is a key component of this new revolution in metering and electrical network control.

The smart meters and associated networking work great for that last mile of communications path, but an inexpensive, reliable, secure path is needed from those data aggregation point substations back to the control center. The DCB encrypted tunnels fit that bill quite nicely.

The DCB ET and UT encrypted tunnel families provide encrypted, flat-network bridging at the needed performance and cost levels. From the economical 10 Mbps client units to high performance multi-gigabit head-end encrypting bridges, there's a price point that fits every requirement. There are even models with dial backup links and wireless-ready remotes.

These tunnels permit your proprietary protocols and confidential information coexist with the BPL, fiber, and wireless data paths already in place. Privately owned Internet links belonging to your larger customers can be utilized without fear of data contamination or loss.

This AES encrypted hardware VPN appliance family is easy to configure, secure, and reliable. It's built upon our 25 years of manufacturing experience dealing with the unique requirements of SCADA and industrial communications applications.



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Real World Applications

- Large users are connected to a utility load management system using existing Internet connections via the DCB ET tunnels. Data is secure via 256 bit AES encryption.
- - A large city connects water and sewer flow meters and pumps to the control center using the Internet and the DCB ET-6602 tunnels as servers, the ET-3302 as remote clients, all secure with AES encryption.
- - Encrypted EtherPoll is used by a municipal utility that supplies the customer electricity, water and Internet. The Internet links are used to reach substations and reclosers, all with secure 256 bit AES encryption. The public Internet and the utility SCADA control systems co-exist on the same fiber facilities.

Check out the secure, easily-deployed products used in these applications at our web site.

Download applications notes detailing actual customer stories.

http://www.dcbnet.com/products_secure.html

Or learn about our entire product line at

<http://www.dcbnet.com>