



Network Monitoring made Easy

Radius provides Butler PPD with a vital communication link to their SCADA system, through the PDR 221 UHF data radio

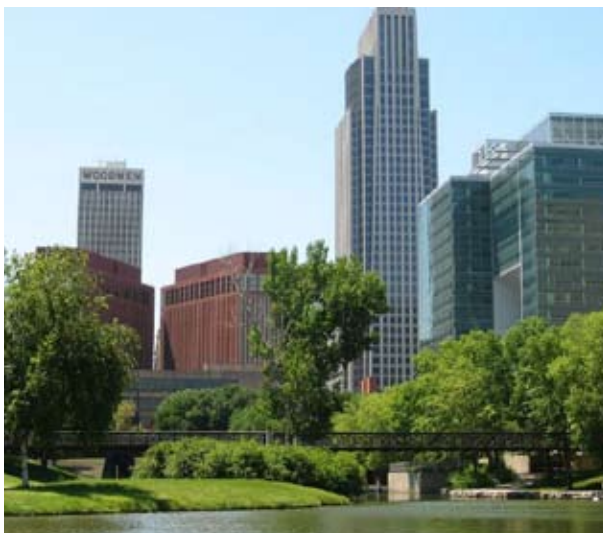
The Radius US team have been working with Butler Public Power District on a fully integrated network monitoring system for their Canon SCADA System. The System was developed to monitor the load management on the network via wireless data telemetry.

HISTORY OF BUTLER PPD

Butler PPD was organized on April 7, 1937. They currently serve approximately 6,300 customers in rural Butler and Saunders counties and the villages of Abie, Bellwood, Bruno, Dwight, Garrison, Linwood, Loma, Malmo, Octavia, Rising City, Surprise, Toughy, Ulysses and Valparaiso. They have over 1586 miles of line, 827 irrigation services, 557 wells with a total well horsepower at 33,651 with 30,321 under control.

THE OBJECTIVE

Butler PPD came to Radius with one objective in mind to have a reliable, cost effective communication method to monitor their network. The perfect partnership for this system lay in Radius' robust PDR 221 data radio using the UHF frequency range to cover the large network Butler manages. Mike Hyatt for Butler PPD comments; "the Radius PDR 221 has been a revelation for us making communication throughout our SCADA system seamless".



WHY RADIUS PDR

The PDR 221 is perfectly positioned to be used in many different environments in which the Butler network can be found. The digital data radio has a tremendous tolerance to even the most extreme weather conditions which, can be found in Nebraska and it's surrounding states.

PERFORMANCE BENEFITS

Radio interference is kept to a minimum due to the PDR 221 Forward Error Correction software which, is able to recover a significant portion of lost or poorly transmitted data due to further increases in communication security via the FEC software installed in all PDR radios. This reduces radio interference to a minimum and ensures the radio communication even in areas with environmental and physical barriers within which the data radio is normally situated in.

"the PDR 221 is perfectly placed to be used in many different environments"

VERSITILITY

One of key feature which Butler Public Power District found of particular interest in the functionality of the PDR data radios is its versatility in the field, not only does the radio have the ability to use peer-to-peer transmission but can also be used for transparent repeater transmissions making the unit more versatile than many of its rival systems.

OPERATING LEVEL

Another key factor of the PDR data radio services is its ability to operate in almost any climate. The radios are designed to function at the widest temperature range possible with a operating temperature between -40oF to 140oF the PDR is well within the temperature range normally found in and around Nebraska.

TRANSPARENT DATA

Butler Power District were also keen to find out that the data radio are transparent and protocol independent which is ideal as they don't have to adapt their SCADA system to control the out-stations. The radios also have collision avoidance, which is ideal for the topographical area in which they operate. Whether the radios are in an urban or rural environment.

"The operating temperature of the PDR 221 is between -40oF and 140o F which is well within the temperature range normally found in Nebraska"

PRODUCT DESCRIPTION

Data Rates

- 4800/9600 @12.5 KHz
- 9600/19200 @25KHz

Frequency Range

- UHF 435...470 MHz

Tx Power

- UHF 0.5...2.0 W factory set
- UHF 0.1...10 W adjustable

Sensitivity

- -107...-114 dBm @ BER <110-6 Depending on data rate and channel spacing.

Protocols

- Transparent, Manage all on market existing protocols. (DNP3, IEC870, RP570, COMLI, Modbus, Wisp, Exoline, Aquacom...)

In cooperation with:

Butler Public Power District

131 4th Street
David City
Nebraska 68632
USA
Tel: 001 402 367 3081
www.butlerppd.com

Do you want to know more about Radius?
Please contact us:

www.radius.net

