



A Clear Link in the Railroad

Radius provide vital data radio communication link to NYSW to aid transport needs to New York State.

The NYSW (New York, Susquehanna & Western Railway) operates over 400 miles of track in New York, New Jersey, and Pennsylvania. They serve over 85 customers and transport a wide range of commodities such as feed ingredients, lumber and other building materials, chemicals and aggregates for customers in New York State.

IMPROVED RAIL CONNECTIONS

As part of their continual railway improvement scheme NYSW have installed a number of Radius PDR 121 data radios to an 80 mile stretch of line along the Pennsylvanian/New York border, between Binhamton NY and Matamoras PA, a picturesque stretch of line, with changing topographical landscapes.

BENEFITS OF A WIRELESS NETWORK

The PDR 121 data radios have been installed in order to monitor the electrical power lines at 17 locations along a stretch of line. Previously NYSW had used private wire connections on telephone poles along the side of the track. These have been problematic and costly to run and maintain.

SIMPLICITY OF INSTALLATION

Radius provided NYSW with both the data radio transparent modems and the installation service. No additional work was required to their existing control systems in order for the data radios to directly replace the wires. "This was literally a wires to wireless operation", as Walter Rich from NYSW goes on to explain "What we were looking for was basically a radio system that was like having wires connected to our control points, and that is what the Radius data radios provide, transparent communications".

Lenny Schmidt Lead Consultant on the project further stated "as an added benefit we got the project on time and below budget. I don't think we could ask for more".

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RECEIVER SENSITIVITY

The reason the PDR 121 data radio was suitable is not just associated with the ease of installation and set up. The data radios have high receiver sensitivity allowing them to communicate over large distance, and since they are digital they are less susceptible to electromagnetic interference compared with analogue radio technology. Add to this is a 'forward error correction' algorithm which means that even when corruption of a transmission occurs, it would have to affect more than 30% of the data message before it caused any problems.



MULTIREPEATER FUNCTIONALITY

Furthermore a unique message routing allows a data telegram to be routed through other Radius PDR units in order to reach its intended location. This vastly increases the distances that can be covered, whilst at the same time reducing infrastructure cost and complexity.

The PDR121 really is simplicity and robustness in one package.

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BENEFITS OF THE PDR 121

- Wide Area Coverage
- Protocol Decoding
- 19.2 kbps
- Proven reliability
- Collision Avoidance Technology
- Built-in Network Management Tools

NEW FEATURES

- More Protocols
- User configured protocols
- East to install
- Encryption

PROTOCOLS

DNP3, IEC870, RP570, COMLI, Modbus, Cooper/PG&E 2179, Telegyr 8979, DCSI, Hunt, Exoline, Cactus, PEIP, Aquacom

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