



JET Case Study

Electric Cooperatives

Delivering more than just electricity

Butler Electric Cooperative delivers 100Mbps high-speed wireless broadband with JET PtMP

Customer: Butler is an Electric Cooperative based in Kansas, U.S. Butler's service area covers 7400 meters and is sparsely populated, with typically less than 4 members per mile/1.6 Km.

Partner: The National Rural Telecommunications Cooperative (NRTC), an independent organization aimed to bring best-of-breed technology to rural utilities and broadband service providers across the U.S.

Through their joint partnership, NRTC can offer RADWIN's extensive carrier-grade portfolio of fixed wireless access solutions to its member base.

Driving broadband to the rural

In 2018 the Butler Electric Cooperative decided to establish a broadband division, Velocity, to provide high speed broadband to its COOP members and people in the surrounding communities.

“Our goal is to provide a network infrastructure that will close the digital divide in rural America.”

Dale Short, CEO, Velocity

The case for wireless

Butler turned to NRTC to help them establish a broadband network. After assessing Butler's requirements and conducting an extensive feasibility study, NRTC recommended that Butler build out a:

- » Fiber backbone network.
- » Use RADWIN's JET Point-to-Multipoint to drive broadband to homes, and assure lowest costs and fastest network roll-out times.

Following NRTC's recommendation, Velocity chose RADWIN's:

- » JET PRO 750Mbps base stations with Beam-forming technology and subscriber units in 5.8GHz and 5.1GHz



“Based on our knowledge of RADWIN's systems and RADWIN's extensive experience in building out fiber-quality networks for rural COOPs, RADWIN's JET PtMP was the best choice for this project.”

Tim Bryan, CEO, NRTC



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Real benefits with JET PtMP

With JET PtMP, Velocity has established a network in mere months. To date, Velocity has deployed over 300 JET PRO base stations and over 1700 subscriber units at customer premises. Thousands more subscriber units are scheduled to be deployed in the coming months.

Velocity is installing 300 units per month, using RADWIN's WINTouch application to simplify and automate the installation process.

With JET PtMP, Velocity is able to:

- » Offer high-speed service packages of 25, 50 and 100Mbps with no data cap restrictions to homes (85% of customer base) and businesses.
- » Enable customers to enjoy unprecedented speeds they previously could only dream of.
- » Drive broadband to remote and sparsely populated areas where fiber is costly to provide and slow to roll-out.
- » Connect customers in a matter of hours and realize fast revenue streams.
- » Deliver broadband in a challenging environments, including near/non line-of-sight scenarios (e.g. trees blocking direct LOS), extreme temperatures and tough terrain.
- » Realize rapid ROI in an area with a low density population (3.4 members per mile).

RADWIN JET PtMP highlights:

- » Base stations with advanced Beamforming technology delivering
 - up to 750 Mbps per sector, 3 Gbps per cell
- » High capacity subscriber units:
 - SU PRO - up to 250 Mbps
 - SU AIR - up to 100 Mbps
- » Supporting SLAs with CIR
- » Exceptional interference immunity
- » Operation in non-line-of-sight
- » Fast, simple installation.

“RADWIN's equipment is stellar, providing non-stop reliable broadband. JET is very easy and quick to install, allowing us to address the huge demand for service, fast.”

Dale Short, CEO , Velocity



About RADWIN

RADWIN's solutions deliver high-speed wireless broadband that meet and exceed the needs of today's users. Deployed in over 170 countries, RADWIN's systems operate in heavy interference and the toughest conditions.

www.radwin.com

About NRTC

NRTC's mission is to provide solutions that help our electric and telephone members bring all of the advantages of today's evolving technology to rural America.

www.nrtc.coop

About Velocity

Velocity is a grassroots effort to provide high speed Internet to Butler Electric Cooperative's membership and surrounding communities.

www.velocity.coop