# Doubling Throughput, Cutting Complexity: How JNET Internet Leads with ePMP 4000 and 4KPowerPlay



JNET Internet is a regional Internet Service Provider based in Koszalin, Poland. The company offers a mix of fiber-optic and fixed wireless broadband to residential, business, and institutional customers. In areas where fiber is impractical, JNET relies on radio technologies to reach dispersed communities and ensure reliable service continuity — including as a backup link for government offices, public services, and retail businesses. Known for its commitment to service quality and innovation, JNET is continually upgrading its infrastructure to stay ahead of customer expectations and market demand.

# #4KPowerPlay

## The Challenge

While JNET utilizes fiber in urban centers, its rural footprint spans dispersed communities where fixed wireless is the only feasible option. The provider also supports institutional and retail customers — including government services and supermarkets — that require backup radio links for business continuity. JNET faced multiple challenges as demand increased:

- **Long-Distance and Mixed-Density Topologies**
Subscriber devices in certain sectors are located between 2 and 7 kilometers from the base station — and in highly variable directions and densities —complicating signal planning and quality control.

- **Severe Spectrum Interference**
Competing providers using similar bands created high levels of interference and degrading service. JNET tested multiple vendor solutions but needed better noise mitigation and internal transmission efficiency.

- **Evolving Performance Demands**
As technology evolves, so do customer expectations. JNET needed to deliver higher throughput, improve stability, and be ready for new service offerings without overhauling its infrastructure.

*"After the migration, we can now comfortably provide 600 Mb/s service to every client in the sector — compared to the 300 Mb/s we offered before. What also makes us happy is the stability of parameters across the sector, controlled frequency usage, and strong resistance to external interference".*

— Jarosław Jeżewski, Owner, JNET Internet

## The Solution

JNET adopted Cambium Networks' ePMP 3000 system to improve performance and minimize disruption. Advanced features such as MU-MIMO, GPS synchronization, and beamforming delivered enhanced throughput and better interference handling from day one.

Building on this success, JNET upgraded one sector using the ePMP 4000 platform through Cambium's 4KPowerPlay program. The migration involved:

- Replacing the ePMP 3000 base station with a new ePMP 4500 AP

- Phased replacement of nearly 40 Force 300-25 subscriber modules with Force 4525L units, covering distances up to 7 kilometers

- Utilizing cnMaestro™ cloud management for zero-touch deployment, service continuity, and ongoing centralized control

Thanks to backward compatibility, most client device upgrades occurred without interrupting service — delivering both speed and simplicity.

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## The Results

The migration to ePMP 4000 brought immediate, measurable improvements:

- **Up to 100% performance gain in subscriber throughput**

- **Bandwidth per client increased from 300 Mbps to 600 Mbps**

- **Consistent sector-wide stability and reduced RF interference**

- **Seamless management and scalability via cnMaestro**™

Encouraged by these results, JNET has expanded the ePMP 4000 deployment to two additional sectors through Cambium's upgrade promotion packages.

## Business Impact

Migrating to ePMP 4000 allowed JNET to significantly elevate service quality and unlock new business opportunities:

- **Doubled subscriber throughput without trenching fiber**

- **Outperformed local competitors with 600 Mbps fixed wireless service**

- **Reduced capital and operating costs**

- **Demonstrated technical leadership and innovation**

JNET is now better positioned to support future technology rollouts and customer growth, with a wireless infrastructure ready to scale.

## About Cambium Networks

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences, anddevice connectivity, with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadbandand network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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