

BEYOND CONNECTIVITY.

COMPANY CASE STUDY

**TWO CRITICAL SITES.
ZERO FIBER CUTS.
ONE WIRELESS EDGE.**

How Metro Wireless bonded Starlink + Multi-Carrier 5G to deliver ultra-resilient enterprise connectivity—when a F1000 energy firm couldn't afford the cost, delay, or risk of traditional fiber.



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MULTI-CARRIER 5G + STARLINK BONDING REPLACED HALF-MILLION DOLLAR FIBER WITH FASTER, STRONGER ENTERPRISE CONNECTIVITY

CLIENT DETAILS:

Name: Fortune 1000 Energy
Leader

Industry: Utilities

About: This F1000 energy leader is a national energy infrastructure and building services company that helps education, government, commercial, and industrial customers become more efficient, productive, and sustainable.

Key challenges included:

- A broadcast-quality upload speed was needed for seamless operations.
- Corporate security compliance with strict internal standards.
- 13 Static IPs required to meet network security requirements.
- Fiber was impractical due to cost, timeline, and network diversity needs.
- 99.9% uptime is mandated for uninterrupted business operations.

OVERVIEW

In the Energy industry, fast and highly available internet services are now table stakes for enterprise users. Our client, a Fortune 1000 global energy leader, needed to **upgrade connectivity** at **two mission-critical office locations** and faced significant challenges. A fiber build was mid-six figures and required a minimum 180-day installation time frame. Due to their remote location, a single fiber line would also be vulnerable to cuts and flooding along the entire distance.

They contacted Metro Wireless about installing their **MetroBONDx4** solution, a service that combines available wireless signals and transforms them into an **enterprise-grade, high-speed internet circuit**. Metro Wireless assessed the available wireless assets at this specific location and recommended a four-circuit bonded solution - MetroBONDx4.

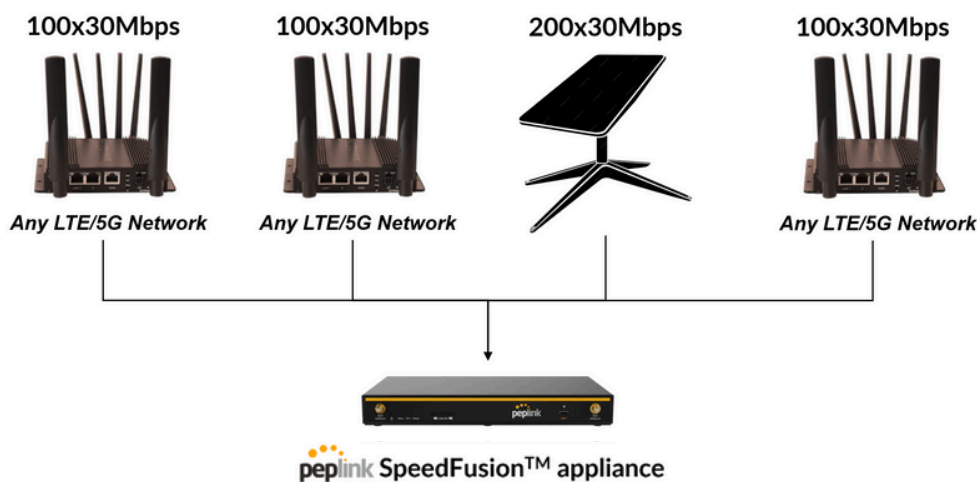
THE CHALLENGE

This firm's operations depend on real-time cloud data, secure communications, and seamless connectivity across offices, but **their legacy internet couldn't deliver the broadcast-quality upload speeds they required**. Beyond speed, strict IT mandates demanded 13 static IPs, 99.9% uptime, and multi-carrier redundancy to prevent outages. **Fiber proved impractical:** prohibitively expensive, slow to deploy, and unable to ensure network diversity. With productivity suffering and a short deployment deadline, traditional wired solutions were off the table. **They needed enterprise-grade performance without the delays, and a wireless alternative became the only viable fix.**

THE SOLUTION

Metro Wireless designed, provisioned, and shipped a custom wireless system that delivers an enterprise-grade circuit. **MetroBond X4 technology combines the reach of Starlink's satellites with the speed of multiple 5G networks.** These signals are **intelligently managed by Peplink SpeedFusion™ routers**, ensuring that the traffic flows smoothly and efficiently.

NETWORK DIAGRAM:



MULTIPLE WAN BONDING PROVIDES BANDWIDTH UP TO 500X200 MBPS WHILE ALSO PROVIDING CARRIER REDUNDANCY FOR HIGH UPTIME ENVIRONMENTS.

THE RESULT

Metro Wireless executed this installation with remarkable speed and precision. Within 24 hours of approval, equipment was staged while teams coordinated **5G activations** and conducted pre-installation site surveys.

Simultaneous deployments at both locations ensured efficiency, with **Starlink dishes and 5G antennas** strategically positioned for optimal signal strength. **Peplink routers** were meticulously configured on-site, integrating all circuits into a seamless bonded network.

Despite the aggressive timeline, the entire system, including **end-to-end performance testing**, was operational in just seven days.

Rigorous speed and reliability checks confirmed that the solution met all enterprise requirements, delivering **100 Mbps uploads and carrier-grade uptime**. This rollout underscores Metro Wireless's expertise in mission-critical connectivity.

Key Results:

- Rapid deployment: connected in just seven days – talk about hitting the deadline!
- Blazing fast speeds: achieved broadcast-quality upload speed, even better than expected.
- Seamless connectivity: all the different connections worked together perfectly.
- Quad carrier network diversity: met all the requirements for backup connections and uptime with their resilient wireless setup.

Business applications:

- Can't afford to have a single point of failure and needs multiple backup connections.
- Operates in remote areas where laying cable is a nightmare.
- Needs a temporary internet setup quickly.

Key Takeaways:

Bonded wireless solutions have emerged to fill a gap in enterprise-grade connectivity. With its unique blend of **high performance and carrier diversity**, bonded wireless delivers the performance and security enterprise customers demand.

THINK YOUR CONNECTIVITY PLAN CAN SURVIVE A FLOOD, A FIBER CUT, AND A REMOTE LOCATION?

Metro Wireless doesn't just survive— we thrive where fiber fears to tread.



**READY TO SEE HOW BONDING STARLINK + 5G MAKES YOUR NETWORK UNBREAKABLE?
START THE CONVERSATION.**

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BEYOND CONNECTIVITY.
BUILT FOR URGENCY.
READY WHEN IT MATTERS.

