



Cambium Networks™

CASE STUDY

Wireless Nation Connects New Zealand's Motorhome Travelers with Reliable Outdoor Wi-Fi



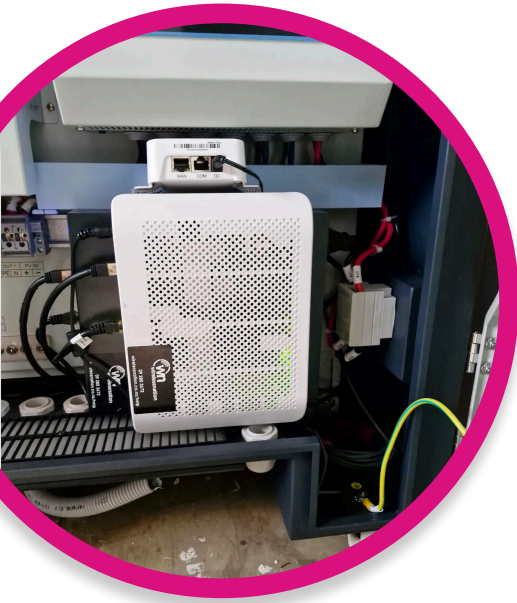
Customer Overview

Wireless Nation, an Internet Service Provider based in Auckland, New Zealand, specializes in connectivity solutions for remote and mobile environments—including portable Wi-Fi, 4G broadband, fibre, and mobile plans. To extend reliable internet access to travelers exploring New Zealand by motorhome, they partnered with the New Zealand Motor Caravan Association (NZMCA). The result: a seamless outdoor Wi-Fi experience that keeps people connected—even in places where you wouldn't expect a signal, let alone a strong one.

Business Challenge

Many NZMCA parks are located in areas with poor or no mobile data coverage, making it difficult for travelers to use the NZMCA mobile app to pay park fees or plan trips. The lack of reliable internet also posed safety and convenience issues for members, especially in isolated regions. Wireless Nation needed a network solution that was:





We planned and
designed a Wi-Fi Park solution
leveraging the exceptional
capabilities of the XV2-2T0.
It's been a game changer in
terms of reliability and outdoor
performance.”

- Zariif Ali, Wireless Nation

- Rugged and reliable in outdoor environments
- Easily integratable with their user authentication system
- Capable of supporting both free and paid user tiers
- Cost-effective to deploy and scale across multiple locations

Reliability was paramount, as park locations were often remote, and minimizing site visits for maintenance was a key objective.

Technology Solution

Wireless Nation standardized its park Wi-Fi solution with Cambium Networks' equipment, ensuring consistency, reliability, and ease of deployment. Their solution architecture includes:

- **XV2-2T0 Outdoor Wi-Fi 6 Access Points**
Delivers dual-radio 802.11ax performance with excellent range and efficiency, ideal for outdoor deployments. Features surge protection, LTE coexistence filtering, and cloud management through cnMaestro™.
- **cnMatrix™ PoE Switches**
Provide robust power and data connectivity for the APs in outdoor environments, simplifying infrastructure setup.
- **NSE 3000 Network Service Edge**
Enables secure tunneling of RADIUS traffic over WireGuard, ensuring authentication traffic is encrypted and reliable.
- **Wi-Fi Designer Tool**
Used for precise planning of AP placement and signal coverage to maximize user experience.

Management of the network is centralized through cnMaestro, Cambium's cloud-based, single-pane-of-glass management system, providing configuration, monitoring, and troubleshooting in one interface.

Field Results

The most recent deployment was completed at the end of March 2025, however, Wireless Nation had already deployed similar configurations in other locations with strong success, leading them to standardize on Cambium's solution.

A test lab replicates the field setup, allowing engineers to test updates and train staff before pushing configurations live. Installers benefit from a plug-and-play deployment process, needing only to mount equipment and run cables.

Up to 80 vehicles are expected during peak season at each park, and the Cambium-powered network can comfortably support general browsing, app usage, and

payment processing. The solution is scalable, with additional APs easily integrated to extend coverage.

Business Value

By partnering with Cambium Networks, Wireless Nation is delivering more than just internet access—they're enabling digital services critical to NZMCA's future strategy. The new solution:

- Improves safety and convenience for motorhome travelers
- Reduces non-payment incidents by enabling easier online fee processing
- Boosts Wireless Nation's brand visibility and value to the NZMCA community
- Provides a cost-effective, scalable, and supportable network for challenging environments

Cambium's competitive price point and robust feature set allowed Wireless Nation to deliver a high-value solution without overextending budget.

The Power of Cambium's ONE Network

Cambium Networks' ONE Network framework played a key role in this deployment by providing a converged IT experience with unified management across wireless and wired infrastructure. This approach significantly reduced operational complexity while ensuring optimal network performance.



A big shout-out

to the Cambium Networks NSE 3000 engineering team. They helped us integrate WireGuard on the NSE 3000, enabling secure RADIUS traffic and ensuring robust guest authentication."

- Santosh Shanker, Wireless Nation



About Cambium Networks

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