



Cambium Networks 60 GHz cnWave Technology Enables Pentanet to Rapidly Build a Multi-Gigabit Fixed Wireless Network Serving Perth, Australia

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Innovative broadband service provider delivers multi-gigabit speeds to the network edge

ROLLING MEADOWS, Ill., Sept. 19, 2021 /PRNewswire/ -- [Cambium Networks](#) (NASDAQ: CMBM), a leading global provider of wireless networking solutions, today announced that [Pentanet](#) is building neXus, a multi-gigabit fixed wireless network across the metro area in Perth, Australia, to provide internet access for business and residential subscribers. The exceptional speeds will be achieved by extending their existing infrastructure consisting of 300 km of "dark" fiber with Cambium Networks' [60 GHz cnWave](#) fixed wireless platform, using [Terragraph](#), a mesh technology developed by Facebook Connectivity. The result will be network performance that even the most demanding video gamers will appreciate.



"In 2019, Perth was reported as having the second slowest internet speeds of all Australian capital cities, but we know that needs to change – and fast," said Stephen Cornish, CEO of Pentanet. "Bandwidth-heavy and latency sensitive applications like cloud-gaming are already transforming connectivity demands, and reliable gigabit speeds are the future for Perth. With Cambium Networks' 60 GHz cnWave technology, Pentanet's neXus is driving a leap in internet connectivity throughout the city to gigabit speeds. Using our existing fixed wireless network infrastructure, Pentanet can rapidly deploy the next-generation of wireless technology to create the neXus."

"Our development and support teams are collaborating closely with the Pentanet team to ensure our solution can scale rapidly to be able to provide connectivity across Perth," said Atul Bhatnagar, president and CEO of Cambium Networks. "They are pioneering a new age of communications with their business model and network architecture. We are pleased to recognize Pentanet's disruptive leadership in the industry with our [Wireless Connectivity Hero award](#)."

Cambium Networks' multi-gigabit fixed wireless broadband technology and centralized management are well suited for urban applications. The solution provides multi-gigabit wireless broadband performance and reliability at a fraction of the cost of fiber. With 60 GHz cnWave, Pentanet can rapidly deploy hybrid networks to extend the fiber plant to customer premises, accelerating time to revenue at lower operating and capital costs. [This video](#) details the value that Pentanet delivers.

Cambium Networks' 60 GHz cnWave solution elements include:

- [V5000 Distribution Node](#) – Equipped with two sectors covering up to 280 degrees with beamforming. A single V5000 can connect up to 30 devices, which includes up to four distribution nodes. The V5000 can be used for point-to-point (PTP), point-to-multipoint (PtMP) and mesh configurations.
- [V3000 Client Node](#) - Featuring a 44.5 dBi high-gain antenna with beamforming, the client nodes can support up to 3.8 Gbps with the capability for even higher rates in the future with channel bonding for both PtMP and PTP configurations.
- [V1000 Client Node](#) - Includes wide-range, 80° beamforming for easy installation. Powered by 802.3af PoE, V1000 supports gigabit throughputs in a compact easy to install form factor

The latest addition to Cambium Networks' multi-gigabit wireless fabric portfolio of solutions, 60 GHz cnWave is fully integrated into [LINKPlanner](#) and [cnMaestro™ end-to-end cloud management](#) that provides a unified view of the entire network. The solution delivers reliable and secure connectivity for residential users, schools, enterprises, and industrial operations at a low total cost of ownership.

Find out more about mmWave products including 5G Fixed wireless, Wi-Fi 6 solutions and centralized management solutions at Cambium Connections' of Cambium Networks' [online events in September](#). Stephen Cornish of Pentanet will be presenting live Tuesday, 21 September – [Register Here](#).

Cambium Networks' full wireless fabric portfolio of solutions are available through its [global network of partners](#).

Cambium Networks is celebrating a Decade of Excellence in 2021 with more than 10 million radios shipped worldwide since commencing operations in 2011.

About Pentanet

Pentanet is a Perth-based, growth-focused telco delivering high-speed internet to a growing number of subscribers by providing them with next-generation internet speeds. This is achieved through Pentanet's market-leading private fixed-wireless network, the largest in Perth, as well as

reselling fixed-line services such as NBN, where its wireless is not yet available.

Pentanet's flagship fixed wireless network has benefits for both customers and investors, offering an outstanding customer experience and a fixed-wireless product that is technically superior to most of the National Broadband Network (NBN) – with attractive margins for investors. This sets Pentanet apart from most broadband providers, which only resell the NBN.

Pentanet will also be part of the rollout of the next wave of subscription-based entertainment services – cloud gaming. The Company's Alliance Partner Agreement with NASDAQ listed NVIDIA – one of the world's largest producers of specialised graphic chips used in gaming – allows Pentanet to be the first to bring their GeForce NOW technology to Australia in 2021.

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About Cambium Networks

[Cambium Networks](#) delivers wireless communications that work for businesses, communities, and cities worldwide. Millions of our radios are deployed to connect people, places and things with a unified wireless fabric that spans multiple standards and frequencies of fixed wireless and Wi-Fi, all managed centrally via the cloud. Our multi-gigabit wireless fabric offers a compelling value proposition over traditional fiber and alternative wireless solutions. We work with our Cambium certified ConnectedPartners to deliver purpose-built networks for service provider, enterprise, industrial, and government connectivity solutions in urban, suburban, and rural environments, with wireless that just works.

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