REVOLUTIONIZING INDOOR WIRELESS NETWORKS

COMPANY OVERVIEW

Airvine was Founded in 2018 in the Heart of Silicon Valley

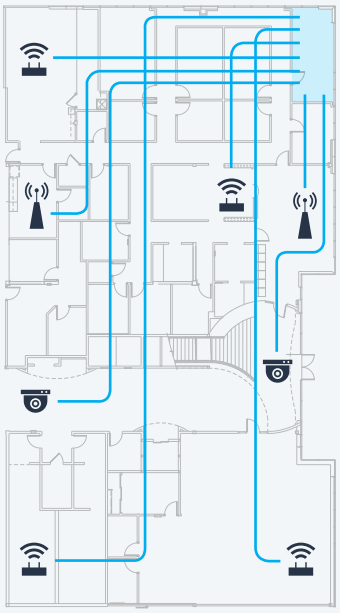
A New Solution – Look Ma, No Wires!

Since 2018 the team has filed three patents; built, deployed, and tested pilot systems with over 30 customers around the globe; and began shipping the first release of the WaveTunnel™ system.

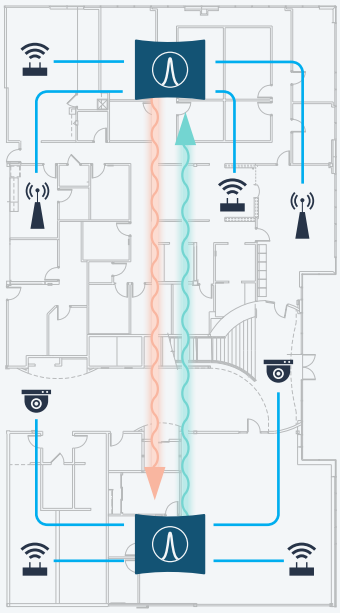
The WaveTunnel offering seeks to address the segment of enterprise networking that until now has been the exclusive provenance of cable and fiber: Local Area Network (LAN) backbones. For years the LAN was primarily used to connect computers. As Wi-Fi blossomed, device-based ethernet connections have migrated to wireless; in fact, most laptops today don't even have an ethernet port.

To support deployment of Access Points (APs), the core of this wireless connectivity, cable and fiber alone were being used to backhaul AP traffic to the wiring closet.

Much of this infrastructure is old, supporting maybe 1Gbps—if that. New Wi-Fi standards have pushed APs to gigabit speeds and more. In addition, these wireless networks are now supporting an expanding cadre of applications, from IoT and video security to AR/VR, 5G NR femtocells, and more. For the future, LAN backbone multigigabit speeds, low latency, and high security are required.



Legacy Hard-wired Solution



Airvine WaveTunnel System

AIRVINE

Using a wireless backbone for the current and future LAN has all the advantages wireless typically brings–it is fast to install with minimal physical disruption.

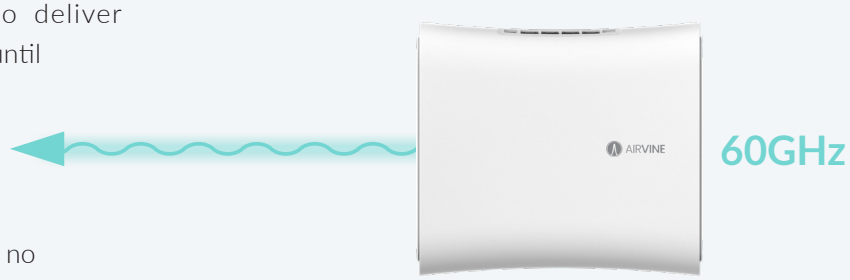
Until today, however, a wireless backbone solution that can deliver on these needs has not been available. The right answer for this application must be Non-Line-of-Sight, meaning it goes through walls, around corridors, has multi-gigabit performance and is highly secure.

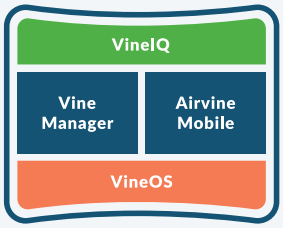
Our vision – use the 60GHz spectrum to deliver intelligent, multigigabit wireless backbone solutions for the enterprise.

Enter the WaveTunnel System from Airvine

This system operates in the 60GHz band,

well known for its ability to deliver multigigabit speeds, although until now it has required clear line-of-sight between nodes. Airvine's WaveTunnel, however, offers true Non-Line-of-Sight capabilities—something no other solution on the market can deliver.





VineSuite

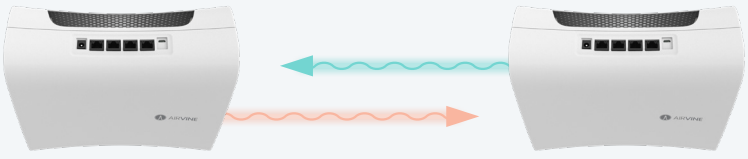
In addition to patented breakthroughs encapsulated in the WaveTunnel nodes, these networks are also supported by Airvine's complete set of software—VineSuite.

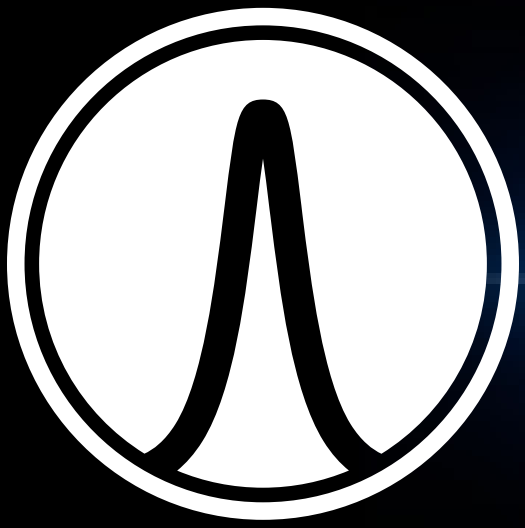
VineSuite consists of a series of software modules including the network OS (VineOS), management via VineManager and AirvineMobile, and adaptive real time network adjustments with VineIQ. These modules combined support ring topologies with automatic re-routing, provide robust QoS support, and establish secure connectivity in a WaveTunnel network.

The WaveTunnel network can be integrated with the existing LAN backbone, or, if desired, can be deployed as a parallel but completely separate network, allowing segmentation of security-sensitive applications from inherently insecure IoT traffic.

While the possible applications for WaveTunnel are enormous, Airvine's initial focus is on the benefits that can be realized in the Multi-Dwelling Unit (MDU), Hospitality, Large Venues, Office Complexes and Warehouse/ Manufacturing markets.

Even though the benefits of wireless networks are well known, using wireless as an enterprise backbone has never been done until now. The challenges of delivering high-performance, Non-Line-of-Sight, secure connectivity with wireless was simply not possible before the introduction of WaveTunnel system. Coupling the core abilities of a WaveTunnel network with VineSuite software is transforming the way people think about LAN backbones. With Airvine as your partner, getting from A to B has never been so easy.





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