# AirTies Announces Hybrid Mesh Software Combining Wi-Fi and Wired Home Networks

## *Operator devices can become smart Access Points utilizing the best of Wi-Fi, PLC, MoCA and Ethernet for next-generation in-home video distribution and ISP services.*

**ISTANBUL, Turkey – 26th January 2016** - AirTies Wireless Networks (<http://www.airties.com/>), a leading supplier of advanced wireless products, today announced hybrid home networking software that combines the best of Wi-Fi, Powerline Communication (PLC), MoCA over coax and Ethernet for enabling the next-generation of in-home HD video distribution. The new software turns an operator’s in-home equipment into smart Wi-Fi access points to deliver resilient and high-capacity broadband and video to all devices in the home.

AirTies hybrid Mesh can benefit from existing in-home cabling such as electrical, coax or Ethernet wires to establish PLC, MoCA or Ethernet links respectively between the Mesh nodes in addition to any existing wireless links. A combination of wired and wireless links is then used between nodes for optimal routing of packets. Links can run in parallel over a wired and wireless connection, which dramatically increases total network capacity. A best path is determined by taking factors such as source location, number of hops required and highest point-to-point link speed into account, rather than just signal strength as competing solutions do.

Traditional PLC/Wi-Fi or MoCA/Wi-Fi extenders rely only on existing wirelines as a backbone. But PLC link performance is subject to interference just as Wi-Fi can be, while use of MoCA as a backbone relies on coaxial outlets being positioned for optimum Wi-Fi coverage, which they rarely are. Frayed wiring, distance and noise are other factors limiting the network performance over the wires.

AirTies Hybrid Mesh technology uses wired links to complement the Wi-Fi Mesh network increasing overall network capacity by aggregating bandwidth across parallel links. This approach reduces dependency on wire performance and outlet position by dynamically utilizing only the best links or socket pairs available.

Then AirTies’ unique client steering technology ensures that mobile clients are always connected to the optimal smart AP/Mesh node to maximize total network capacity.

A hybrid approach combines the flexibility of Wi-Fi with the available bandwidth offered by wired options, creating a more reliable and higher capacity network with wider reach. Wi-Fi has a predictable signal attenuation and is usually best to deliver services to wireless client devices within the same or nearby rooms, but degrades with distance and through thick walls or floors. Then a wired option can be best for connecting separate Wi-Fi Access Points (APs) across multiple floors at a reasonable link speed. AirTies software lets operators meet the needs of individual homes with a complimentary and dynamic wired /wireless approach.

“Hybrid Mesh enables the next-generation of video distribution in the home,” says Bülent Çelebi Executive Chairman and co-Founder of AirTies. “Today we consume HD video - soon to become ultra HD - on mobile devices in addition to multiple TVs. Hybrid Mesh enables 10 premium video streams simultaneously from multiple sources including live broadcast, recorded on PVR, OTT from the internet or from a local NAS server”.

AirTies’ modular approach to video and Internet distribution in the home gives operators a solution for guaranteed QoS to the end device, whether wired or wireless. Previous dark spots can be eliminated by the simple addition of another device using the network resource best equipped to reach it.

**About AirTies**

AirTies was founded in 2004 by a senior management and technical team from Silicon Valley, with the strategic intent to become the market leader for the wirelessly connected home. AirTies designs and develops its own software and hardware, wirelessly streaming high definition video to multiple rooms and screens. The comprehensive product portfolio includes broadband Internet devices and Internet based television set top boxes. Its award winning technology enables seamless wireless integration at the touch of a button, as well as 100 percent Internet wireless coverage in homes. AirTies has an install base of over 10 million devices worldwide.

More information is available at [www.airties.com](http://www.airties.com). Follow us on twitter [@AirTies](https://twitter.com/AirTies).

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