

AutoCell Accelerates Wireless LAN Performance up to Four Times

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Propagate Networks, Inc. announced that The Tolly Group's test report released today validates the impact Propagate's AutoCell product has on improving the operations of Wireless LAN ([WLAN](#)) networks. AutoCell is Propagate's embedded cognitive radio firmware. The Tolly Group awarded AutoCell its "Tolly Up to Spec Certification" and confirmed that **connectivity performance improves four-fold** when AutoCell is embedded in WLAN equipment.

"The Tolly Group test proves that wireless LAN performance with AutoCell-enabled WLAN devices greatly improves both streaming and Web-based network traffic throughput while effectively eliminating RF interference," said Floyd Backes, Chief Technology Officer, Propagate Networks. "Propagate is committed to optimizing the Wi-Fi experience so businesses can easily plug in a new WLAN access point and never worry about performance brownouts, neighboring interference and administrative headaches."

In rigorous performance measurement testing at The Tolly Group labs, AutoCell achieved these radical improvements through RF management and its exclusive channel selection and client load-balancing technologies. These capabilities enable PCs and other client devices to automatically connect to the wireless network using the best path or channel to the least congested access point at that moment in time -- all without the need to do any manual network management or real-time configuration.

"Our lab test scenarios demonstrate that AutoCell usage results in more than four times the aggregate throughput achieved across the network, and in TCP file transfer tests, almost five times the throughput of devices not using AutoCell," said Kevin Tolly, President and CEO, The Tolly Group.

AutoCell is patent-pending cognitive radio firmware that can be embedded in 802.11 wireless network (WLAN) devices, including access points (APs) and client adapters. AutoCell is a distributed system that continuously monitors RF patterns--including both transmitting and client devices--and automatically tunes AP signal strength and channel selection to avoid RF interference. The result is a completely self-optimizing network that delivers peak performance, under all conditions.

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