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Cohda Wireless Showcases Wi-Fi Enhancing Technology

Trial Network Delivers Mobile Streaming Video, Three-way VoIP Conferencing, Fast Hand-off of Data, and Heightened Receiver Sensitivity Resulting in Significant Coverage and Capacity Gains

ORLANDO, Fla. and ADELAIDE, AUSTRALIA - December 11th, 2018 – Cohda Wireless, a provider of Wi-Fi enhancing technologies, today announced a trial wireless deployment of the company's mobile broadband wireless technology in Adelaide, Australia. The deployment showcases Cohda Wireless' technology in high-speed mobile and urban conditions featuring enhanced receiver sensitivity, multi-path resistance and high-speed mobility. Demonstrations include demanding real-time applications such as streaming full motion video from in-vehicle cameras, voice over internet protocol (VoIP) teleconferencing, integrated Automatic Vehicle Location (AVL) tracking, and much more. The technology is able to accomplish this with significantly fewer access points deployed in Non Line-of-Sight (NLOS) conditions compared to today's municipal broadband wireless networks, which typically require line-of-sight between nodes.

"Cohda Wireless' advanced receiver technology is fundamentally changing the performance characteristics and economics of 802.11 in outdoor, mobile environments, as evidenced by the success of our test deployment," said Martin Suter, CEO of Cohda Wireless. "Current 802.11 devices use chips designed for indoor use at pedestrian speeds, and which perform poorly in outdoor, mobile environments. With this network, Cohda is proving the viability of 802.11 in the most challenging use cases and is able to demonstrate qualitative and quantitative gains over commercial, off-the-shelf Wi-Fi chipsets."

"Cohda Wireless was established to commercialize technology created at the University of South Australia's Institute for Telecommunications Research and it continues to demonstrate global technology leadership," said Mark Hender, Managing Director of ITEK (the University of South Australia's commercialization company). "Cohda's mobile, outdoor 802.11 network in Adelaide is compelling proof of the capabilities of the Cohda technology, and is a major milestone towards Cohda becoming a significant South Australian commercial success story with roots in our university's research labs."

Cohda Wireless' advanced receiver technology is being tested within a typical outdoor 802.11 network. The test hardware operates in both the 4.9GHz licensed public safety and 5.8GHz unlicensed bands; however, other bands including the 2.4GHz (unlicensed ISM band), the 3.65GHz (broadband wireless services band) and the 5.9GHz (telematics/ITS band) may also be supported. Testing is underway in conditions regularly faced by first responders including high-speed mobility, harsh multipath (i.e.

buildings, cars, and trees) and interference caused by typical urban and suburban environments. These trials have simulated various SAFECOM scenarios, including public safety vehicles - moving at high speeds - maintaining seamless video and VoIP links from the vehicle to a command center through a challenging outdoor radio frequency environment. Additionally, the command center is able to track the location of all vehicles via integrated GPS tracking. The access points are deployed NLOS, thus demonstrating the dramatic increase in Cohda's receiver sensitivity and multipath tolerance relative to "Vanilla" or standard 802.11 receivers.

Cohda's patent pending, zero-latency OFDM receiver architecture and algorithms are interoperable with IEEE standards and designed to exploit all available sources of diversity (time, frequency and spatial), making it essentially impervious to the effects of mobility and multipath outdoors. Relative to existing technologies, Cohda-enhanced receivers achieve an increase of 7 to 12 dB in sensitivity, an ability to maintain links in NLOS environments at mobility of up to 200 mph (an effective doubling in reliable transmission range), increased coverage into notorious black-spots as encountered in urban canyons, and improved system capacity due to robust links at higher supported data rates. These advancements will result in greater coverage and capacity with a significant reduction in node density as compared to current municipal wireless networks, resulting in a dramatic improvement of a deployment's Return on Investment (ROI).

About Cohda Wireless

Cohda Wireless was founded in 2003 by a group of pre-eminent research scientists working at the University of South Australia's Institute for Telecommunications Research, and incubated by ITEK, the University's incubator. In December 2003, Cohda secured pre-seed funding from SciVentures Investments and to date, the company has attracted additional early stage private investment, as well as received two significant grants from the Australian Government. **CohdaWireless™** Mobile-OFDM (Orthogonal Frequency Division Multiplexing) employs patent pending OFDM receiver architectures and algorithms to address limitations inherent in standards based systems in real-world scenarios. Its world-class R&D team has progressed to the completion of a proof-of-concept network deployment of its breakthrough OFDM Physical Layer technology, **CohdaWireless™** Mobile-OFDM, applied to the 802.11 standard. In August 2005, Cohda officially launched its brand and established a physical and legal presence in the USA, its primary target market.