

Edgewater Wireless Applauds IEEE Research Paper: The Effects of Channel Bonding on Spectrum Utilization

Research Paper Shows that 8 x 20 MHz channels may offer 252 Mbps compared to only 51 Mbps in a 160 MHz channel

May 1, 2018 -- Ottawa, Canada - Edgewater Wireless Systems Inc. ([YFI; TSX.V](#)) ([OTCQB: KPIFF](#)), the developer of WiFi3™ ultra-wideband, concurrent multi-channel WiFi chipsets, modular circuit cards, station units and access point products for high-density/high-interference wireless networks made to meet the challenge of large retailers, enterprise, hospitality and event venues, today highlights the important findings outlined in the research paper: **IEEE 802.11ac: Effect of channel bonding on spectrum utilization in dense environments**. The paper is authored by Yousri Daldoul, Djamel-Eddine Meddour and Adlen Ksentini.

This IEEE (Institute of Electrical and Electronics Engineers) paper is a must-read for all WiFi experts, and is going to change the conversation regarding what is the most efficient use of WiFi spectrum in high density environments. This groundbreaking work by the IEEE lends credence to the spectral efficiency of Edgewater Wireless' WiFi3 technology in high density WiFi networks.

Key Findings from the IEEE paper include:

- 8 x 20 MHz channels may offer 252 Mbps compared to only 51 Mbps in a 160 MHz channel.
- It is more appropriate, in dense WiFi environments, to separate the available WLANs into narrow channels in-order-to reduce the collisions
- A spectrum without channel bonding (only 20 MHz channels) may provide **500% the achieved throughput** when using the 160 MHz bonding
- In dense WLAN deployment, many networks may need to share the same wide channel, leading to increase the contention on the medium access, and hence increasing the collisions rate.
- When the number of WiFi stations increases, all the 20 MHz channels become used, and their aggregated throughput exceeds that of the 160 MHz channel.

"Edgewater Wireless applauds the research conducted by Mr. Daldoul, Mr. Meddour and Mr. Ksentini. Their findings parallel the overwhelming benefits of Edgewater's multi-channel single radio WiFi technology." said Eric Smith, VP of Product with Edgewater Wireless "The advantages of multiple, concurrent channels of transmit and receive in high density WiFi deployments are something we have consistently demonstrated with our WiFi3 technology."

According to the Global Web Index – the average digital consumer has 3.64 WiFi-enabled devices; – smart phones, tablets and laptops – more devices per user is creating massive demand for data and connectivity mainly due to high-bandwidth data applications like video or latency sensitive services such as voice over WiFi (VoWiFi). Edgewater's multi-channel WiFi3™

AP architecture provides the highest possible WiFi system performance and highest channel density in wireless today.

“We believe multi-channel will offer the highest channel densification in wireless. WiFi, IOT and 5G rely, all or in part, on the unlicensed spectrum. If we have learned anything from the evolution of WiFi, we understand that better RF management will reduce interference and contention while boosting wireless performance,” said Andrew Skafel, President & CEO of Edgewater Wireless. “Our WiFi3 architecture; chipsets and radio cards are available today for select OEM and ODM partners to benefit from the performance gains and advantages only available with our multi-channel single radio technology.

The IEEE is the world's largest association of technical professionals with more than 420,000 members in over 160 countries around the world. Its objectives are the educational and technical advancement of electrical and electronic engineering, telecommunications, computer engineering and allied disciplines.

Backed by 24 patents, Edgewater’s WiFi3™ is the best solution for in high-density WiFi applications. Edgewater’s patented technology mitigates adjacent and co-channel interference to enable multiple, concurrent channels of transmit and receive from a single WiFi standards-compliant radio. Delivering the highest channel density in the industry means fewer access points to deliver the highest Quality of Service (QoS) for users. For more information on High-Density WiFi solutions and OEM packages. For more information, visit: www.edgewaterwireless.com or <http://www.aera.io/>

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About Edgewater Wireless Systems Inc.:

Edgewater Wireless develops and commercializes leading edge technologies and intellectual property for the communications market. Edgewater Wireless delivers advanced product solutions designed to meet the high-density, high quality of service (QoS) and high-reliability needs of service providers and their customers. Leveraging over twenty-four (24) patents, Edgewater’s WiFi3™ is redefining WiFi technology with its wide-band, multi-channel radio and high-capacity Access Point solutions, and delivering next generation WiFi, today.

The best solution for High-Density WiFi networks, Edgewater Wireless WiFi3 powered access point products enable innovative service providers to plan, build and deploy reliable, high-capacity services (like VoWiFi) for high-density wireless data demand in any environment.

Do more with less! Fewer access points delivering high quality service at a lower overall deployment cost make our patented WiFi3™ technology the right choice for your next WiFi network.

Explore the evolution of Wi-Fi at www.EdgewaterWireless.com and www.aera.io/

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