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Federated Wireless jointly announces first successful testing of 4G LTE technology over CBRS spectrum in Verizon's live commercial network, demonstrating speeds of up to 790 Mbps

Boston, MA, 16 May 2018 - Allied Minds subsidiary, Federated Wireless, has announced jointly with Verizon, Ericsson and Qualcomm Technologies, Inc. (a subsidiary of Qualcomm Incorporated), the successful testing of 4G LTE technology over CBRS spectrum (Citizens Broadband Radio Service) in Verizon's live commercial network. After the successful [initial trials](#) last year and ongoing work to advance the [CBRS ecosystem](#) in Verizon's lab in Texas, this real-world deployment marks the beginning of public access to the 150 MHz bandwidth of 3.5 GHz shared spectrum which until now has been used by the federal government for radar systems.

"As more people use more wireless devices to do more things in more places, building a network to stay ahead of customer demand is crucial," said Mike Haberman, VP Network Engineering for Verizon. "This shared spectrum resource is a critical component of our strategy to add capacity to our network."

The deployment in Florida used a combination of Verizon licensed AWS and 700 MHz spectrum aggregated with 50 MHz of CBRS band 48 spectrum. The combination of these LTE Advanced features of multiple antennas, 256 QAM, and carrier aggregation across shared and licensed spectrum produced peak speeds of 790 Mbps. The deployments in Florida involved outdoor and in-building systems.

"We have been aggressively working over the past several years on deploying LTE Advanced features. We've fully deployed carrier aggregation in our licensed spectrum across our network in over 2,000 markets, and have 4X4 MIMO and 256 QAM deployed in over 810 markets nationwide for our customers," said Haberman. "Combining those features with this shared spectrum band will provide more capacity, higher peak speeds and faster throughput when accessing the network for our customers who have come to expect the latest technology and highest reliability from Verizon."

For this deployment, Ericsson provided Ericsson Radio DOT system for indoor and Radio 2208 for outdoor, Qualcomm Technologies provided the Qualcomm ® Snapdragon TM 845 mobile test device with X20 LTE for access to CBRS on mobile devices, and Federated Wireless provided the prioritization through their Spectrum Controller, a Spectrum Access System (SAS) that dynamically allocates channels within the FCC's spectrum sharing framework for this band. Ericsson also provided the domain proxy to enable the radios to communicate with the Federated Wireless Spectrum Controller.

This marks the beginning of commercial deployment of LTE on CBRS spectrum. Devices that can access the CBRS spectrum are expected in 2018.

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For more information contact:

Allied Minds plc +44 7771 872 922
Neil Pizey, Head of Corporate Development

FTI Consulting +44 20 3727 1000
Ben Atwell / Brett Pollard

About Allied Minds

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businesses with capital, management, expertise and shared services. For more information, please visit www.alliedminds.com

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