

Friday, November 21, 2019

McLean, VA

Key Bridge Wireless concludes CBRS ESC testing.

Key Bridge Wireless has successfully concluded testing of its Environmental Sensing Capability system with the Institute for Telecommunication Sciences in support of the Citizens Broadband Radio Service.

Key Bridge Wireless is pleased to announce the conclusion of certification testing of its AI-enabled Environmental Sensing Capability. The Key Bridge ESC integrates cutting edge sensor technology, provided by Key Bridge partner Deepwave Digital, and is the first large scale commercial application of deep learning and artificial intelligence for spectrum monitoring and signal detection for telecommunication.

“Our ESC solution is a geographically distributed network of sensors that must perform flawlessly,” said Jesse Caulfield, CEO of Key Bridge Wireless. “Protecting incumbent users is the first and only priority for our ESC solution. We’ll wait for the official report to share details, but CBRS users who depend on our Environmental Sensing Capability can operate with complete confidence.”

“We have leveraged the latest methods in AI and deep learning to create a sensor that correctly identified every radar signal variant in the certification test suite with extremely high accuracy,” said John Ferguson, CEO of Deepwave Digital. “Our detection algorithm was trained on tens of thousands of radar variants spanning the entire parameter space. We have coupled this software with our embedded, NVIDIA GPU-based, radio, the Artificial Intelligence Radio Transceiver (AIR-T). This allowed us to demonstrate that AI is a commercially viable solution to detect and discern current and future incumbent radar waveforms.”

The Key Bridge ESC network is currently being deployed and is expected to enter commercial service in early 2020.

About Key Bridge Wireless

Key Bridge provides automated frequency coordination and spectrum administration solutions. Founded in 2008, Key Bridge is the largest private spectrum administrator with over 14 GHz under administration in the United States and Canada. The Key Bridge ESC provides incumbent detection capabilities to authorized Spectrum Access Systems. For more information visit keybridgewireless.com.

About Deepwave Digital

Deepwave Digital directly enables the incorporation of artificial intelligence (AI) in to radio frequency (RF) and wireless systems. Our AIR-T system moves the AI computation engine to the signal edge of the RF system to reduce network bandwidth, latency, and human-driven analysis requirements. For more information visit deepwavedigital.com

This press release includes forward-looking statements that are based on information currently available to management, management's beliefs, as well as on a number of assumptions concerning future events. Forward-looking statements are not a guarantee of performance and are subject to a number of uncertainties and other factors, which could cause the actual results to differ materially from those currently expected. In providing forward-looking statements, the company does not intend, and is not undertaking any obligation or duty, to update these statements as a result of new information, future events or otherwise.