

December 29, 2023

Federal Communications Commission
Office of Engineering and Technology
1270 Fairfield Rd.
Gettysburg, PA 17325-7245

Request for OET Experimental License

Dear Sir:

On April 24, 2020, the FCC released a Report and Order and Future Notice of Proposed Rulemaking to expand unlicensed broadband operations into the 6GHz band, as a benefit to the public (FCC Record: FCC-20-51A1). Pursuant to said order, Zero2 Wireless hereby requests an Experimental License in order to test available equipment within the U-NII-5 and U-NII-7 bands.

The experimental operations would involve field deployment and testing of both Cambium Networks' and Tarana's 6GHz radio technology on one tower in the state of Texas. The radios' throughput capabilities would be tested in the U-NII-5 band and U-NII-7 bands using 160MHz-wide channels, across approximately six access points and approximately 100 CPE total. The antenna gain of the Cambium Sector Antenna is 18dBi. The antenna gain of the Tarana Sector is 17 dBi.

Approximately 80 of the CPE will be Cambium. The antenna model for the Cambium CPE model is C5x. The antenna gain is 25 dBi.

Approximately 20 of the CPE will be Tarana. The antenna model for the Tarana CPE model is G1-RN6AHB012. The antenna gain is 17 dBi

Participants in the study will not be charged and equipment will be retrieved at the close of the study.

Zero2 Wireless's data collection program will operate without causing harmful interference to incumbent users. Zero2 Wireless will work with any nearby licensed incumbent user that it identifies, based on data provided in the FCC's databases, to ensure that its operations will avoid harmful impact with such existing users.

If the Commission has any questions, please feel free to contact me at 312-841-9188.

Best Regards,

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