

NextNav LLC
Application for Renewal of Experimental License
FCC Call Sign WF2XLW

July 2020

NextNav LLC (“NextNav”), formerly known as Commlabs, Inc., hereby seeks renewal of its experimental license for an additional 24 months. Renewal of the license will permit NextNav to continue experimentation to improve the performance of its Multilateration Location and Monitoring Service (“M-LMS”).

Background

NextNav, under its previous name, Commlabs, Inc., was granted experimental authority to operate a network of M-LMS transmitters in Santa Clara, San Mateo, Alameda, Marin, and San Francisco Counties to conduct experimental testing of its M-LMS wireless location technology.¹ NextNav has periodically sought modification and renewal of its experimental authorization to facilitate testing and development over wider geographic areas, spectrum bandwidths, and emissions designators.² NextNav seeks to continue this testing, which has continued for a number of years without resulting in harmful interference to other users of the relevant spectrum band.

Renewal and Public Interest Statement

Based on the success of its experimental operations to date, NextNav seeks to continue its testing and development operations. The flexibility permitted by NextNav’s experimental authorization has already contributed to significant increases in accuracy with respect to its indoor location technology. For example, during the Stage Z testbed, which was conducted by CTIA at the behest of the Commission, NextNav’s vertical location solution was documented to achieve 3 meter accuracy for 94 percent of wireless test calls to E911.³ NextNav’s vertical location technology also achieved 1.8 meter accuracy for 80 percent of wireless calls in the Stage Z testbed.⁴ Further experimental operations will continue to refine NextNav’s vertical and horizontal location capabilities as well as exploring approaches to further enhance spectrum sharing with Part 15 devices operating in the same spectrum.

¹ See ELS File No. 0268-EX-PL-2010 (call sign WF2XLW).

² See ELS File No. 0096-EX-ML-2011; ELS File No. 0147-EX-ML-2011; ELS File No. 0185-EX-ML-2011.

³ See *Report on Stage Z, 911 Location Testbed, LLC*, PS Docket 07-114, at 65 (Aug. 3, 2018).

⁴ See *id.*