

July 14, 2016

Ex Parte

Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Re: Notice of Oral Ex Parte: Current Trends in LTE-U and LAA Technology, ET Docket No. 15-105

Dear Ms. Dortch:

While meeting with Chairman Wheeler's Legal Advisor Edward "Smitty" Smith and Commissioner Rosenworcel's Legal Advisor Johanna Thomas in relation to separate matters on July 12, 2016, Matthew Fischer, Systems Engineering, and Christopher Szymanski, Director of Product Marketing and Government Affairs at Broadcom, provided a brief update on Broadcom's interpretation of the progress that has been made in the Wi-Fi Alliance LTE-U / Wi-Fi Coexistence Test Plan. In particular, Broadcom stressed that this program is proceeding at faster pace than the typical Wi-Fi Alliance plan; and that the program continues to advance even in light of member disagreement on a variety of important issues, including the appropriate signal levels to be tested.

Mr. Szymanski and Mr. Fischer further discussed the importance of selecting appropriate signal level thresholds for coexistence testing. They explained that while the IEEE 802.11 specification required that Wi-Fi devices listen for Wi-Fi signals at -82 dBm in conducting a clear channel assessment, chip manufacturers and OEMs commonly design Wi-Fi products to listen for signal levels well below -82 dBm (even as low as -90 dBm). They explained that the purpose of the Wi-Fi Alliance test is to determine if the impact of an LTE-U node on Wi-Fi users is no worse than the impact of another Wi-Fi network, and that based on the data provided by CableLabs a significant percentage of Wi-Fi network traffic occurs at signals at -82 dBm or below, then any coexistence testing to determine fairness must include at least -82 dBm signal detection level at the very least.

Pursuant to the Commission's rules, a copy of this notice is being filed electronically in the above-referenced docket. If you require any additional information please contact the undersigned.

Sincerely,

/s/ Christopher Szymanski
Christopher Szymanski
Director, Product Marketing and
Government Affairs

cc: meeting participants