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November 22, 2016

VIA ELECTRONIC FILING

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

Re: **Written *Ex Parte* Presentation**

IB Docket No. 13-213; *Terrestrial Use of the 2473-2495 MHz Band for Low-Power Mobile Broadband Networks*

Dear Ms. Dortch:

Wi-Fi Alliance has been an active participant in the above-referenced proceeding, questioning the impact that the Terrestrial Low Power Service (“TLPS”) proposed by Globalstar, Inc. (“Globalstar”) would have on the operation of unlicensed devices, including those using Wi-Fi technology, in the spectrum below 2483.5 GHz.^{1/} Wi-Fi Alliance is therefore encouraged by the letter that Globalstar submitted on November 9, 2016, which would reform its proposal for TLPS.^{2/} In particular, Globalstar now asks that the Commission adopt rules that would permit it to use the 2483.5-2495 MHz band, for which it is already licensed to provide mobile satellite services, to offer TLPS.

While Globalstar is wrong in its characterization that the interference concerns expressed by Wi-Fi Alliance and others are “without merit,” modification of the proposal as Globalstar suggests appears, on its face, to alleviate many of those concerns.^{3/} Globalstar asserts that the

^{1/} See, e.g., Letter from Edgar Figueroa, President and CEO, Wi-Fi Alliance to Marlene H. Dortch, Sec’y, FCC, IB Docket No. 13-213 (filed Oct. 14, 2015); Letter from Edgar Figueroa, President and CEO, Wi-Fi Alliance, to Marlene H. Dortch, Sec’y, FCC, IB Docket No. 13-213 and RM-11685 (filed May 26, 2015); Letter from Russell H. Fox, Counsel to Wi-Fi Alliance, to Marlene H. Dortch, Sec’y, FCC, IB Docket No. 13-213, et al. (filed Apr. 30, 2015); Letter from Russell H. Fox, Counsel to Wi-Fi Alliance, to Marlene H. Dortch, Sec’y, FCC, IB Docket No. 13-213 and RM-11685 (filed Apr. 30, 2015); Letter from Russell H. Fox, Counsel to Wi-Fi Alliance, to Marlene H. Dortch, Sec’y, FCC, ET Docket No. 13-49, et al. (filed Nov. 3, 2014).

^{2/} Letter from L. Barbee Ponder, Gen. Counsel and Vice President of Regulatory Affairs, Globalstar to Marlene H. Dortch, Sec’y, FCC. IB Docket No. 13-213 (filed Nov. 9, 2015).

^{3/} Nevertheless, Wi-Fi Alliance notes that Globalstar’s TLPS demonstrations used a 200 mmW enterprise class access point operating in a 20 megahertz channel using Wi-Fi protocol. Globalstar’s revised proposal seeks approval to use access points with 1 Watt conducted power / 4 W EIRP in a 10 megahertz channel using an unlicensed LTE protocol. To the best of our knowledge, there is no data

Commission should adopt a “subset” of the rules it proposed this proceeding. Wi-Fi Alliance does not object to that approach, subject to the conditions expressed here.

First, while Globalstar mentions proposed Section 25.149(g), it does not recognize that the draft section would have been titled “Special provisions for terrestrial low power systems in the 2473-2495 MHz band.” The section should be re-titled to reflect only the use of the band 2483.5-2495 MHz and terrestrial low power systems should be more fully defined.

Second, while Globalstar asks that the Commission adopt a “subset” of the rules proposed and it describes how some of the proposed rules would be modified in view of its revised proposal (for example, specifying how certain provisions of Section 25.149 should be changed from the version originally proposed), it is not clear which of the proposed rules it wishes for the Commission to adopt in the subset and which of the proposed rules would be omitted. Globalstar should submit in the record the precise rules that would be adopted, as it would have the Commission adopt them.

Third, in considering the Ancillary Terrestrial Components (“ATC”) integrated service rules, the Commission observed that Globalstar could not provide integrated handsets using the 2473-2483.5 GHz band.^{4/} It therefore proposed an exception to the integrated service rule. While Wi-Fi Alliance expresses no opinion on whether the integrated service rule should be preserved, it asks the Commission to continue to impose the restrictions that the integrated rule would have created – limits on devices that can use spectrum both above and below 2483.5 MHz for ATC.

In particular, and because of the possibility that the Commission may allow Globalstar to provide terrestrial-only service (thereby eliminating the prohibition on handsets that use spectrum below 2483.5 MHz), the Commission should ensure that Globalstar does not “bond” or “aggregate” its spectrum with frequencies below 2483.5 MHz in an attempt to provide a combined ATC/Part 15 service. Allowing bonded or aggregated service will eliminate the beneficial components of Globalstar’s proposal and effectively permit the provision of service in a way to which Wi-Fi Alliance and others objected. The Commission can prevent that from occurring by clarifying that any service Globalstar offers conform to the provisions of Sections 15.205 and 15.209 of the rules. This will: (1) prevent Globalstar from providing what would effectively be a Part 15 service in a band restricted under Section 15.205; and (2) ensure that Globalstar observes the emission limits applicable to Part 15 devices. Failure to comply with either of these rules would affect other Part 15 devices in the same way that Wi-Fi Alliance expressed in its earlier submissions in this proceeding.

Wi-Fi Alliance continues to appreciate the Commission’s commitment to ensuring that unlicensed spectrum users have reliable access to the spectrum that constitutes such a critical

available on how such an unlicensed LTE device may perform, and the Commission may wish to consider the impact of these changed operating conditions.

^{4/} *Terrestrial Use of the 2473-2495 MHz Band for Low-Power Mobile Broadband Networks; Amendments to Rules for the Ancillary Terrestrial Component of Mobile Satellite Service Systems*, Notice of Proposed Rulemaking, 28 FCC Rcd. 15351 ¶ 27 (2013).

component of the wireless ecosystem. Globalstar's latest proposal, subject to the foregoing, appears to respect these important requirements.

Pursuant to Section 1.1206 of the Commission's rules, a copy of this letter has been submitted in the record of this proceeding.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Edgar Figueroa", with a long horizontal flourish extending to the right.

WI-FI ALLIANCE

Edgar Figueroa
President and CEO

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