

3GPP TSG RAN meeting #80
La Jolla, USA, June 11-14, 2018

RP-181122

Way Forward for Impact Analysis on Bluetooth and IEEE 802.11 operation for new TDD E-UTRA band as proposed by GlobalStar

Broadcom, CableLabs, Comcast

Background

- During the RAN Plenary #79 meeting, a new band proposal (submitted by GlobalStar) [4], was submitted for discussion and further approval, being backed by the justification provided by [3].
- [1] and also different companies raised issues, during the floor discussions, with a straightforward approval of [4] given the potential coexistence impact on the adjacent Wi-Fi and Bluetooth bands.
- The floor discussions led to an agreement [2] stating that a SI would be required in order to investigate the potential coexistence issues with the non-LTE access technologies. In order to do not delay un-neccessarily a resolution on this band, the parties agreed to have an SI as part of the proposed WI, under the understanding that the SI would be concluded before the start of the WI.
- Coexistence related items were supposed to be discussed during RAN4#87 meeting. Unfortunately GlobalStar was not present and as a result no technical discussion took place.

FCC Process Considerations

It is within the discretion of a standards body to design controls that go beyond regulations. The FCC sets minimum coexistence standards and it expects the industry to work out agreements that may go further.

In addition, most governments around the world have not authorized Terrestrial Low Power Service (TLPS) and would benefit from industry experts working through the technical issues.

The details surrounding the coexistence of the LTE TDD 2483.5-2495 GHz band with WLAN/BT access technologies are subject to industry decisions and do not expect the regulatory bodies to provide the related implementation details.

Way Forward

- No WID work on the proposed Global LTE TDD 2.4 GHz band will start, without the proper completion of the coexistence SID.
- The WID will address the conclusions of the SID.
- The SID completion will be tracked via the status reports presented to the RAN Plenary

References

1. R4-1806632, The Impact of Globalstar use of 2483.5 to 2495 MHz band on the BT/BLE and WLAN, Broadcom Corporation / CableLabs, RAN4 #87, May 2018.
2. RP-180583, New WI Proposal for E-UTRA 2.4 GHz TDD Band, GlobalStar, RAN #79, Chennai, India.
3. RP-180213, Motivation for New E-UTRA 2.4 GHz TDD Band WI. Global Star, RAN #79 Chennai ,India
4. RP-180212, New WI Proposal for E-UTRA 2.4 GHz TDD Band, GlobalStar, RAN #79, Chennai, India.