IEEE 802.11 Coexistence SC

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| Proposed LS to ETSI ERM TG11 in response to a LS wrt “IEEE 802.11 section in TR 103 665 – 2.4 GHz SRDoc” |
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Abstract

*This document contains a draft Liaison Statement to ETSI ERM TG11 in response to a Liaison Statement wrt “IEEE 802.11 section in TR 103 665 – 2.4 GHz SRDoc”. It will be considered by the IEEE 802.11 Coexistence SC*

## Proposed LS to ETSI ERM TG11

TO:

* Edgard Vangeel, ETSI ERM TG11 Chair, evangeel@cisco.com

CC:

* Holger Butscheidt, ETSI ERM Chair, Holger.Butscheidt@BNetzA.de
* Andrew Myles, IEEE 802.11 Coexistence Standing Committee Chair, amyles@cisco.com
* Paul Nikolich, IEEE 802 LMSC Chair, p.nikolich@ieee.org

SUBJECT: **LS from ETSI ERM TG11 wrt “IEEE 802.11 section in TR 103 665 – 2.4 GHz SRDoc”**

DATE: xx July 2020

Dear Edgard,

The IEEE 802.11 Working Group (WG) would like to thank ETSI ERM TG11 for their Liaison Statement (ERMTG11(20)000018r2) in which you highlight the ongoing work in ERM TG11 relating to the System Reference Document on 2.4 GHz Wideband Data Transmission Systems (TR 103 665).

As requested, the WG has conducted a review of clause 8.1 in the TR 103 665 draft and the proposal in ERMTG11(20)000016 from Qorvo for a new clause 8.1.4 on “*Current challenges*” for IEEE 802.11. The WG recommends:

* <list of recommendations for clause 8.1>
* The challenges asserted in ERMTG11(20)000016 justifying a new clause 8.1.4 are not recognised by the WG as important challenges that need to be addressed at this time. The WG recommends that the proposal for a new clause 8.1.4 is not accepted on the basis that the associated proposed regulatory change for a per transmitter power limit could unnecessarily risk the ongoing success of the 2.4 GHz band.

The WG notes in reviewing the TR 103 665 draft that some stakeholders seem to believe the existing Power Density limit of 10 dBm/MHz is too restrictive, particularly for IEEE 802.15.4 based systems as they have a relatively smaller bandwidth. The WG notes that the acceptance of any proposal to remove or relax existing Power Density requirements for non-hoppers could have a serious adverse effect on Wi-Fi operations in the 2.4 GHz band. A wide band Wi-Fi device would be subject to interference from the full power of a narrow band device, whereas the narrow band device would only be subject to interference from a portion of the power of a wide band Wi-Fi device.

The existing 2.4 GHz band regulations were designed to enable the operation of wide-band systems using polite access mechanisms. The regulations have been in place for more than 20 years and have enabled the development of a multiple multi-billion-dollar industries with significant socio-economic impact across Europe. The WG notes that it is not aware of any justification to put this success at risk by allowing any significant regulatory changes, including to the Power Density limits. The WG suggests using any new clause 8.1.4 discussing “*Current challenges*” for IEEE 802.11 to describe the potential risk from the removal of Power Density requirement for non-hoppers.

Yours sincerely,

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