IEEE P802.11
Wireless LANs

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| TGbh Coexistence Assessment |
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Abstract

This serves as the coexistence assessment document for TGbh in meeting the requirement of the CSD

# Introduction

This document addresses coexistence of IEEE Std 802.11bh [1] per the PAR [2] and CSD [3]. The relevant sections of the P802.11bh PAR and CSD are outlined below:

In the PAR scope (5.2.b)

“This amendment specifies modifications to the medium access control (MAC) mechanisms to preserve the existing services that might otherwise be restricted …”

In the CSD (1.1.2):

The response to: “Will the WG create a CA document as part of the WG balloting process as described in Clause 13?” **Yes**

# Bands of Operation

As specified in the PAR, the 802.11bh amendment proposes 802.11 medium access control layer (MAC) changes regardless of frequency band. All frequency bands supported by 802.11 will/can be used.

# Coexistence with legacy 802.11 Systems

# Coexistence with legacy 802.11 Systems in bands below 1 GHz, between 1GHz and 7.125GHz, and above 45 GHz

The 802.11bh amendment does not propose any PHY changes. All the MAC changes proposed in the amendment are compatible with medium access rules that are part of IEEE 802.11-REVme, the IEEE 802.11az amendment and the P802.11be amendment. Therefore, devices operating in compliance with the 802.11bh amendment will not create interference to devices operating in these bands more than those legacy devices themselves.

# Coexistence with non 802.11 Systems operating in the same bands

As explained in clause 3, the 802.11bh amendment does not change medium access methods from legacy 802.11 devices. Therefore, coexistence provided by 802.11bh devices to non 802.11 devices will be at the same level provided by legacy 802.11 devices.

**References:**

**[1] P802.11bh D1.0**

**[2]** [**11-20-1795-01-0rcm-updated-bh-par-for-review.pdf**](https://mentor.ieee.org/802.11/dcn/20/11-20-1795-01-0rcm-updated-bh-par-for-review.pdf)

**[3]** [**11-20-1117-05-0rcm-rcm-sg-proposed-rcm-csd-draft.docx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1117-05-0rcm-rcm-sg-proposed-rcm-csd-draft.docx)

**[4] P802.11REVme D2.0**

**[5] P802.11be D3.0**

**[6] IEEE Std 802.11az**