IEEE P802.11  
Wireless LANs

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| Some clause B4 comment resolutions for LB-254 | | | | |
| Date: 2021-09-13 | | | | |
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Abstract

This document provides proposed comment resolutions for clause B4 CIDs submitted in response to the 802.11 TGbd D2.0 WG letter ballot #254. CIDs: 2204, 2206, 2207, 2208, 2209, and 2210.

The comments are available in: <https://mentor.ieee.org/802.11/dcn/21/11-21-1296-00-00bd-tgbd-lb254-comments.xlsx>.

Status: Highlighting in CID column indicates the status of the discussion on the CID:

Not Discussed (not highlighted)

Discussed additional discussion required (date of discussion(s) is(are) located below CID number)

Discussed / ready for SP (date of discussion(s) is(are) located below CID number)

SP run / ready for Motion (date of the SP is located below the date of discussion)

Motioned (date of Motion is located below the date of the SP)

Resolution Status: Highlighting in the Resolution column indicates:

Yellow highlighted text needs to be discussed

Red highlighted text has been discussed and additional discussion is required

**CIDs for Clause B4 Page 123, lines 22:**

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| --- | --- | --- | --- |
| **CID** | **Comment** | **Proposed Change** | **Resolution** |
| 2204 | Comparing Subclause 4.3.17a, Clause 31 and 32 with Annex B several mandatory and optional featues are nto listed in the Tabels in Annex B. Please add entries for mandatory support for coexistence with non-NGV STA, repetitve NON\_NGV\_10 PPDU, LDPC coding, midambles, non-NGV duplicate PPDU, block ACK, extended MAC service interface, NGV capability indication for non-NGV PPDUs, frame aggregation, positioning and ranging features. | as in comment | Revised  1) Coexistence with non-NGV STAs, is provided by NGVM1.1, as it includes all 31.2 requirements and 31.2.1 contains the requirement for Coexistence with non-NGV STAs.  2) 31.2.4 contains the requirements for NON\_NGV\_10.  3) The LPDC requirement is in clause 32.3.9.4 Coding – hence clause 32.3 should be included in the mandatory PHY features, see changes below.  4) The midambles requirements are in clause 32.3.9 – hence clause 32.3 should be included in the mandatory PHY features, see changes below.  5) There currently is no requirement in the draft that requires an NGV STA to be able to transmit a non-NGV duplicate PPDU. Such a requirement should be added and then referenced, preferably the new requirement will be in clause 32.3. But such an addition is outside the scope of this comment.  6) The block ACK requirement for NGV STAs, is provided by NGVM1.1, as it includes all 31.2 requirements and, the block ACK requirements are in 31.2.3.  7) The extended MAC service interface requirements are in clause 6.3.126-6.3.128, these requirements should be added in a new clause.  8) NGV capability indication for non-NGV PPDUs are encoded in the Duration/ID field of the MAC header, and the Duration/Id field requirement is provided by NGVM1.1, as it includes all 31.2 requirements, and the Duration/ID field requirements are in 31.2.1.  9) Frame aggregation is an optional feature defined in clause 31.2.3, hence there is no reason to add it as a mandatory feature.  10) Positioning and ranging features are optional as noted in clause 4.2.17a and specified in clause 31.4.1  Changes to be made:  Insert a mandatory PHY feature, before NGV1.1 and reorder the NGV numbering so that this new feature becomes NGV1.1, With text as shown for the table in B4.38.1 in 11-12-1434 in the new row labeled as NGV1.0 (to be renumbered NGV1.1).  Insert a new clause B.4.38.3 NGV Extended MAC Service features, with a new table that includes NGVE1.1 as shown in 11-12/1434. |

**CIDs for Clause B4.6 Page 124, lines 18:**

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| **CID** | **Comment** | **Proposed Change** | **Resolution** |
| 2206 | Based on comment resolution for CID 1454, it was decided that C2 is not a new transmit power classe and the entry in D2.2 was removed. Hence remove the OF4.1.8. | as in comment | Revised  Agree with commentor  On page 124 remove line 6-24. Removing the editing instructions for Table B.4.6 and all text related to clause B.4.6 from the draft. |

**CIDs for Clause B4.38.1 Page 124, lines 42 and 44:**

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| CID | Comment | Proposed Change | Resolution |
| 2207 | NGV1.1 "10 MHz operation in the 5.9 GHz band" references 32.4 (NGV PLME). Please change the reference to 32.5 (Parameters for NGV-MCSs) as for NGV1.2 | as in comment | Accepted |
| 2208 | NGV 2.1 "NGV-MCS with Index 0-10 and NSS=1" references 32.4 (NGV PLME). Please change the reference to 32.5 (Parameters for NGV-MCSs) as for NGV 2.2 | as in comment | Accepted |
| 2209 | NGV 2.1 states "NGV-MCS with Index 0-10 and NSS=1". NGV-MCS 10 is reserved and NGV-MCS 9 is only allowed for 20 MHz PPDU. Hence change the protocol capability to "NGV-MCS with Inde 0-8, 9 (20 MHz only), or 15 and NSS=1". | as in comment | Revised  Agree with commentor  Change the protocol capability to:  "NGV-MCS with Index 0-8, 9 (20 MHz only), or 15 and NSS=1" |
| 2210 | NGV 2.2 states "NGV-MCS with Index 0-9 and NSS=2". NGV-MCS 15 is also allowed and NGV-MCS 9 is only allowed for 20 MHz PPDU. Hence change the protocol capability to "NGV-MCS with Inde 0-8, 9 (20 MHz only), or 15 and NSS=2". | as in comment | Revised  Agree with commentor  Change the protocol capability to:  "NGV-MCS with Index 0-8, 9 (20 MHz only), or 15 and NSS=2" |

**B.4.38NGV features**

**B.4.38.1 NGV PHY features**

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| **Item** | **Feature** | **References** | **Status** | **Support** |
| NGV1.0 | NGV PHY features | 32.3 (NGV PHY) | CFNGV:M | Yes  No  N/A  |
| NGV1.1 | 10 MHz operation in the 5.9 GHz band | 32.4 (NGV  PLME) | CFNGV:M | Yes  No  N/A  |
| NGV1.2 | 20 MHz operation in the 5.9 GHz band | 32.5  (Parameters  for NGVMCSs) | CFNGV:M | Yes  No  N/A  |
| NGV2.1 | NGV-MCS with Index 0-10 and *NSS* = 1 | 32.4 (NGV  PLME) | CFNGV:M | Yes  No  N/A  |
| NGV 2.2 | NGV-MCS with Index 0-9 and *NSS* = 2 | 32.5  (Parameters  for NGVMCSs) | CFNGV:O | Yes  No  N/A  |
| NGV4.1 | Spectrum mask, Class A  (10 MHz channel spacing) | D.2.3  (Transmit  spectrum  mask) | CFNGV:O | Yes  No  N/A  |
| NGV4.2 | Spectrum mask, Class B  (10 MHz channel spacing) | D.2.3  (Transmit  spectrum  mask) | CFNGV:O | Yes  No  N/A  |

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extended MAC service interface

**B.4.38.3 NGV Extended MAC Service features**

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| **Item** | **Feature** | **References** | **Status** | **Support** |
| NGVE1.0 | Extended MAC service features – MLME | 6.3.126  6.3.127  6.2.128 | CFNGV:M | Yes  No  N/A  |

**References:**