IEEE P802.11
Wireless LANs

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|  LB251 CIDs related to DMG STA with OCB operation |
| Date: 2021-1-11 |
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Abstract

This submission proposes resolution of comments related to 60 GHz operation from Comment Collection on TGbd Draft 1.0

4 CIDs: 1216, 1445, 1025, 1444

Revision history:

r0 initial

r1 editorial changes to the CID/proposed resolution table to follow good practice in the comment resolution tutorial

r2 revised the proposed resolution/text changes to CIDs 1444, 1445, 1025

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| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Proposed Resolution** |
| 1216 | 9.4.1.46 | 27.20 | OCB is not actually a "BSS type". So, in Table 9-69 we should add a note to that effect | Below table 9-69 add "NOTE - OCB is not a BSS type, but rather an indication of communication outside the context of a BSS." | **Accepted** |
| 1445 | 31.3.2 | 40.50 | Weird way to express a restriction | Change to "The STA shall not send Control frames of subtype CF-End, Poll, SPR, Grant, Grant Ack, Sector Ack, Block Ack Schedule or TDD Beamforming." | **Revised**Agreed in principle with the commenter. In addition to the proposed change by the commenter, we propose to implement the specification in 11.18 rather than 32.3.2 to clarify the relationship between the spec in 11.18 and proposed spec for DMG STAs.TGbd Editor: Incorporate the change in <https://mentor.ieee.org/802.11/dcn/21/11-21-0044-02-00bd-lb251-cids-related-to-dmg-sta-with-ocb-operation.docx> for CID 1445. |
| 1025 | 31.3.2 | 40.48 | What types of control frames can be the STA send and under what conditions. | As in comment. | **Revised**We propose the same resolution for CID1445 to clarify what types of control frames can be the STA send. The DMG/EDMG MAC speficification applies for operations with transimitting the frames.TGbd Editor: Incorporate the change in <https://mentor.ieee.org/802.11/dcn/21/11-21-0044-02-00bd-lb251-cids-related-to-dmg-sta-with-ocb-operation.docx> for CID 1025.Note to editor: Same resolution for CID 1445. |
| 1444 | 31.3.2 | 40.47 | Looks as if this might in fact be trying to say that those settings are mandatory | Change to "The STA shall set the Discovery Mode field set to 1, and the CBAP Onlyand CBAP Source subfields in the DMG Parameters field set to 1 and 0, respectively, in DMG Beacon frames." | **Revised**Agreed in principle with the commenter. Provided that the proposed resolution for CID 1445 in this submission is agreed, the related text will be included in 11.18. We propose to implement the proposed change by the commenter of CID1444 to the text in 11.18.TGbd Editor: Incorporate the change in <https://mentor.ieee.org/802.11/dcn/21/11-21-0044-02-00bd-lb251-cids-related-to-dmg-sta-with-ocb-operation.docx> for CID 1444. |

**Proposed changes to D1.1**

9.4.1.46 DMG Parameters field

***TGbd Editor: Add the NOTE to Table 9-69 in Draft P802.11bd D1.1 as follows (CID1216):***

**Table 9-69 – The BSS Type subfield when the Discovery mode field is 1**

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| --- | --- | --- |
| **Subfield value** | **Responding STA role** | **Applicable BSS types** |
| 3 | AP | Infrastructure BSS |
| 2 | PCP | PBSS |
| 1 | Non-AP STA | PBSS, IBSS, OCB |
| 0 | Any | Infrastructure BSS, PBSS, IBSS, OCB |
| NOTE —OCB is not a BSS type, but rather an indication of communication outside the context of a BSS. (#1216) |

***TGbd Editor: Add the following to Draft P802.11bd D1.1 (#1444, #1445, #1025):***

11.18 STAs communicating Data frames outside the context of a BSS

***Change the first paragraph as follows***

When dot11OCBActivated is true in a STA:

1. Synchronization, authentication, association, and frame classes as defined in 11.1 (Synchronization) and 11.3 (STA authentication and association) are not used. Data confidentiality as defined in Clause 12 (Security) is not used. The STA may send Action frames and, if the STA maintains a TSF Timer, Timing Advertisement frames.
2. If the STA is a DMG STA, the STA may send DMG Beacon frames. A STA sending DMG Beacon frames shall set the Discovery Mode field to 1, and set the CBAP Only and CBAP Source subfields in the DMG Parameters field to 1 and 0 respectively. (#1444)
3. The STA may send Control frames, except those of subtype PS-Poll and CF-End(#2699). In addition, if the STA is a DMG STA, the STA shall not send Control frames of subtype Poll, SPR, Grant, Grant Ack, Sector Ack, Block Ack Schedule, and TDD Beamforming. (#1445, #1025)
4. The STA may send Data frames of subtype Data, Null, QoS Data, and QoS Null.
5. The STA shall set the BSSID field in all Management and Data frames to the wildcard BSSID value.

***TGbd Editor:Remove the subclause 31.3.2 from Draft P802.11bd (#1445, #1025):***

~~31.3.2 DMG STAs communicating Data frames outside the context of a BSS~~

**~~When dot11OCBActivated is true in a DMG STA, the following applies in addition to description in subclause 11.18 (STAs communicating Data frames outside the context of a BSS):~~**

1. **~~The STA may send DMG Beacon frames the Discovery Mode field set to one, and the CBAP Only and CBAP Source subfields in the DMG Parameters field set to 1 and 0 respectively~~**
2. **~~The STA may send Control frames, except those of subtype Poll, SPR, Grant, Grant Ack, Sector Ack, Block Ack Schedule and TDD Beamforming.~~**

**References**

[1] Draft P802.11bd D1.1