### IEEE P802.11 Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 11bf D0.1 CR for CID 1, 589, 647 | | | | |
| Date: 2022-07-22 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Ning Gao | OPPO |  |  | gaoning1@oppo.com |
| Lei Huang | OPPO |  |  | huang.lei1@oppo.com |
| Chaoming Luo | OPPO |  |  | luochaoming@oppo.com |

Abstract

This submission proposes resolutions for the following 3 CIDs for 11bf D0.1 Comment Collection:

CIDs:1, 589, 647

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Change Sensing Measurement Setup Request/Response frame to DMG Sensing Measurement Setup Request/Response frame.
* Rev 2: Add futher descriptions of Start of Burst, Inter Burst Interval, Intra Burst Interval fields of the DMG Sensing Scheduling subelement.
* Rev 3: Swap the description of Intra Burst Interval and Inter Burst Interval fields.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbf D0.1 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbf D0.1 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbf Editor: Editing instructions preceded by “TGbf Editor” are instructions to the TGbf editor to modify existing material in the TGbf draft. As a result of adopting the changes, the TGbf editor will execute the instructions rather than copy them to the TGbf Draft.***

### CID #1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1 | 42.53 | 9.4.2.323 | The acronym LUT has not been defined. | Add acronym LUT with definition to subclause 3.4 | **Revised-**  Agree with the comment in principle.  **TGbf editor to make the changes shown in 11-22-0829-00-00bf-cr-for-cid-1-589-647.docx under CID 1.** |

**3.4 Abbreviations and acronyms**

***TGbf editor: please insert the following acronym definitions as the first line (maintaining alphabetical order):***

LUT lookup table

### CID #589

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 589 | 41.26 | 9.4.2.322 | If there is no scheduling information, what will be the real scheduling? | Make DMG Sensing Scheduling as mandatory. | **Revised**  **TGbf editor to make the changes shown in 11-22-0829-00-00bf-cr-for-cid-1-589-647.docx under CID 589.** |

Discussion:

The format of DMG Sensing Scheduling subelement is as follow:

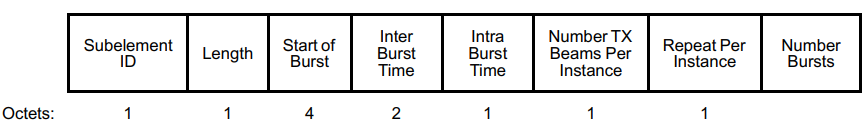


Figure 1 DMG Sensing Scheduling subelement format

The Start of Burst, Inter Burst Interval, Intra Burst Interval, and Number Bursts fields in the DMG Sensing Measurement Setup element is necessary for Coordinated Monostatic, Coordinated Bistatic, Multistatic sensing and Bistatic (AP is initiator) sensing types, in case of non-AP STA sensing responders may go into power saving mode. But in other cases, such as Bistatic sensing (AP is the responder), these fields are unnecessary. Because in these cases, the responder will never go to sleep so the initiator can initiate a DMG sensing instance at any time avaliable.

Moreover, the Number TX Beams Per Instance and Repeat Per Instance fields together with the First Beam Index field, TX Beam List subelement, and RX Beam List subelement in the DMG Sensing Measurement Setup element precisely indicate the Tx beams used in each instance. Thus, the DMG Sensing Scheduling subelement is indispensable to these types of DMG sensing.

The DMG Sensing Scheduling subelement exists in the DMG Sensing Measurement Setup element which can be carried by DMG Sensing Measurement Setup Request frame and DMG Sensing Measurement Setup Response frame. It’s straightforward that this subelement should always be present in the DMG Sensing Measurement Setup Request frame for it is sent by the sensing initiator. Besides, based on the draft D0.1, this subelement will conditionally be present in the DMG Sensing Measurement Setup Response frame. Specifically, when the Status Code of DMG Sensing Measurement Setup Response frame is REJECT\_WITH\_SCHEDULE, the DMG Sensing Scheduling subelement will be present in the DMG Sensing Measurement Setup Response frame.

Proposed Text Change:

**9.4.2.322 DMG Sensing Measurement Setup element**

**9.4.2.322.3 DMG Sensing Scheduling subelement**

***TGbf editor: please revise the paragraph at P42L35-41 as follows:***

The Start of Burst field contains the time for the start of the first burst in TSF units. A value of 0 indicates that the time for the start of the first burst is unspecified.

The -Intra Burst Interval field contains the time between the start of successive instances in a burst. This field is

in TSF field units. A value of 0 indicates that the time between the start of successive instances in a burst is unspecified.

The Inter Burst Interval field contains the time between the start of successive bursts of TSF Units. A value of 0 indicates that the time between the start of successive bursts is unspecified.

**11.21.20.3 DMG measurement setup**

**11.21.20.3.1 General**

***TGbf editor: please revise the paragraph at P83L44 as follows:***

The sensing initiator shall include a DMG Sensing Scheduling subelement in the Optional Subelements field in the DMG Sening Measurement Setup Request frame. The DMG Sensing Scheduling subelement contains the scheduling of the measurement as proposed by the sensing initiator.

### CID #647

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 589 | 37.40 | 9.4.2.320 | The length of TX Flag in Figure 9-1002ba is 1 byte. The corresponding text in line 49 only describe cases when the value of this subfield equals to 0 and 1. | Add some decription that the other values are reserved. | **Revised-**  Agree with the comment in principle.  **TGbf editor to make the changes shown in 11-22-0829-00-00bf-cr-for-cid-1-589-647.docx under CID 647.** |

**9.4.2.320 DMG Sensing Beam Description element**

TGbf editor: please revise the third paragraph as follows:

The TX Flag field indicates the type of a beam description. The TX Flag definitions are shown in Table 9-401u (TX Flag field definition). The indexing of the beams is separate for the RX and TX beams.

**Table 9-401u (TX Flag field definition)**

|  |  |
| --- | --- |
| **Value** | **Description** |
| 0 | RX beam description |
| 1 | TX beam description |
| 2-255 | Reserved |