IEEE P802.11
Wireless LANs

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| Initial SA ballot comments – DMG comments Part 1 |
| Date: 2024-06-20 |
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**Abstract**

This document proposes the resolutions to the following “DMG” CIDs:

6132, 6152, 6154, 6157, 6158 (5 in total)

R0: initial version on June 20, 2024.

R1: revised version on July 17, 2024. Changes made to resolutions to CIDs 6132 and 6154.

# ****6132****

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 6132 | 11.55.3.6.4 | 193.46 | The inter-frame spacing requirement is not consistent for the sensing responder to respond with a DMG Sensing Response frame. Please unify the requirement: within a SIFS or after a SIFS. [ng] | Please unify the requirement: within a SIFS, or after a SIFS. | Revised“Within a SIFS” can be interpreted as no later than SIFS. But “after a SIFS” can be regarded as any time after SIFS. The most common way of specifying the SIFS requirement in the protocol is that an action is taken “a SIFS after” a previous action. The proposed resolution will go after “a SIFS after” expression. Other appearances of “after a SIFS” or “within a SIFS” are also changed for consistency. Please refer to the modifications labelled with #6132 in DCN 24/1068r1: <https://mentor.ieee.org/802.11/dcn/24/11-24-1068-01-00bf-initial-sa-ballot-comments-dmg-comments-part-1.docx> |



**Modifications (#6132):**

***To TGbf editor: Please modify P151L20 as follows.***

An AP shall begin a TB sensing measurement exchange with a polling phase if at least one STA is assigned to be polled. In a TB sensing measurement exchange with a polling phase, if an AP sends a Sensing Polling Trigger frame and receives a CTS-to-self frame from at least one STA, it shall proceed to the NDPA sounding and/or TF sounding phase a SIFS after the polling phase and if reporting is required, it shall proceed to the reporting phase a SIFS after the NDPA sounding and/or TF sounding phase. (#6132)

***To TGbf editor: Please modify P193L45 as follows.***

The sensing responder shall respond with a DMG Sensing Response frame to the sensing initiator a SIFS after receiving the DMG Sensing Request frame. (#6132)

***To TGbf editor: Please modify P194L65 as follows.***

The sensing initiator sends a DMG Sensing Poll frame to each of the sensing responders a SIFS after the transmission of the last PPDU. Each sensing responder responds with a DMG Sensing Report frame that includes a DMG Sensing Report Control element and either a DMG Sensing Report element or one or more Channel Measurement Feedback elements a SIFS after receiving the DMG Sensing Poll frame. (#6132)

# ****6152****

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 6152 | 11.55.3.5 | 181.64 | It should be the time difference between the start of consecutive bursts, not between consecutive DMG sensing bursts. The latter can be interpreted as between the end of the previous burst and the start of following burst. [ng] | Please add "the start of" between "consecutive". | Revised. Agree with the commenter. Please refer to the modifications labelled with #6152 in DCN 24/1068r1: <https://mentor.ieee.org/802.11/dcn/24/11-24-1068-01-00bf-initial-sa-ballot-comments-dmg-comments-part-1.docx> |

***To TGbf editor: Please modify P181L64 as follows.***

**Modifications (#6152):**

A DMG sensing burst is a set of scheduled DMG sensing measurement exchanges so that the overall time that it takes to complete all DMG sensing measurement exchanges within each DMG sensing burst is less than the time difference between the start of consecutive DMG sensing bursts. One or more sensing responders may be scheduled for sensing within a DMG sensing burst. (#6152)

# ****6154****

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 6154 | 11.55.3.4 | 181.38 | Typo: It should be REJECTED not REJECT. [ng] | Please change REJECT\_WITH\_SCHEDULE to REJECTED\_WITH\_SCHEDULE. | Revised. The commenter pointed out an editorial error in the status code. Besides that, this status code is also incorrect. REJECTED\_WITH\_SCHEDULE is not defined in the spec. It is REJECTED\_WITH\_SUGGESTED\_ SENSING\_PARAMETERS that is specified in the spec (see 24/1090r1). Please refer to the modifications labelled with #6154 in DCN 24/1068r1: <https://mentor.ieee.org/802.11/dcn/24/11-24-1068-01-00bf-initial-sa-ballot-comments-dmg-comments-part-1.docx> |

**Modifications (#6154):**

***To TGbf editor: Please modify P181L38 as follows.***

If the sensing responder indicated REJECTED\_WITH\_SUGGESTED\_SENSING\_PARAMETERS, the DMG Sensing Scheduling subelement indicates the proposed schedule from the sensing responder. (#6154)

# ****6157****

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 6157 | 11.55.3.4 | 180.1 | The fourth bullet point is duplicated as the second one. [ng] | Please delete one of the duplicated texts. | Revised. Agree with the commenter. Please refer to the modifications labelled with #6157 in DCN 24/1068r1: <https://mentor.ieee.org/802.11/dcn/24/11-24-1068-01-00bf-initial-sa-ballot-comments-dmg-comments-part-1.docx> |

**Modifications (#6157):**

***To TGbf editor: Please modify P181L64 as follows.***

— Start Of Burst field to the time of the start of the burst in TSF units.

— Intraburst Interval field to the time between the start of successive DMG sensing measurement exchanges in a burst.

— Interburst Interval field to the time between the start of successive bursts.

(#6157)— Number TX Beams Per Exchange field to the number of TX AWV patterns to be used in each DMG sensing measurement exchange.

— Repeat Per Exchange field to the number of times the sensing transmitter goes through the Number TX Beams Per Exchange within the DMG sensing measurement exchange (see 11.55.3.6.3 (Bistatic DMG sensing measurement exchange)).

# ****6158****

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** | **Proposed resolution** |
| 6158 | 11.55.3.4 | 180.04 | The description "in TSF units" is confusing. Does it mean in the unit of microsecond? [ng] | Please change the time unit to microsecond. Please also change other appearances of "in TSF units" in the draft to "in microsecond". | Revised. Agree with the commenter. Please refer to the modifications labelled with #6158 in DCN 24/1068r1: <https://mentor.ieee.org/802.11/dcn/24/11-24-1068-01-00bf-initial-sa-ballot-comments-dmg-comments-part-1.docx> |

**Modifications (#6158):**

***To TGbf editor: Please modify P180L04 as follows.***

— Start Of Burst field to the time of the start of the burst in the unit of microsecond (#6158).

***To TGbf editor: Please modify P180L34 as follows.***

— Allocation Start for DMG sensing field to the time of the start of the burst in the unit of microsecond (#6158). Every DMG sensing burst starts at….

SP:

Do you agree to the resolutions provided for CIDs **6132**, 6152, **6154**, 6157, 6158 in 24/1068r1 to be included in the latest 11bf Draft?

Y/N/A