IEEE P802.11
Wireless LANs

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| PDT: Updates on sensing measurement setup termination frame |
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Abstract

This document includes updated text for **Clause 9.6.7.52 Sensing Measurement Setup Termination frame format** in 802.11bf draft 0.1.

**Revision history:**

* r0: Initial version.
* r1: One bit “Terminate All Measurement Setups” is changed to two bits per offline discussion.
* r2: Change “TB/non-TB Measurement Setup ID” to “TB/non-TB Measurement Setup Type” based on online discussion.

**Discussions:**

1. According to SP 2a (Yes: 14, No: 7, Abstain: 7) of 11-22/0626r3: Updates on measurement setup termination frame, the Measurement Setup ID information field only indicates one measurement setup ID. The Measurement Setup ID Information field format is defined as below.



That is to say, the “Terminate All Measurement Setups subfied”, “TB/non-TB Measurement Setup ID subfield” and one “Measurement Setup ID field” are necessary to Sensing Measurement Setup Termination frame.

1. According to offline discussion, “Terminate All Measurement Setups” can include two bits: “Terminate All TB Measurement Setups”, “Terminate All non-TB Measurement Setups”. The reason is that additional one bit (small overhead) can provide selectivity as the use case on one side can stop without the other side.
2. According to the discussion of 11-22/0721r0: Discussion on the length of measurement setup ID, we have the consensus that the reasonable length of Measurement Setup ID can be ≤ 5 bits. Therefore, we can merge “Terminate All TB Measurement Setups subfied”, “Terminate All non-TB Measurement Setups subfied”, “TB/non-TB Measurement Setup ID subfield” and “Measurement Setup ID (sub)field” into one octet to minimize the length of Sensing Measurement Setup Termination frame.

Note: The specific length of Measurement Setup ID is still TBD, but ≤ 5 bits.

Based on the discussions shown above, Sensing Measurement Setup Termination frame format is updated as below:

**9.6 Action frame format details**

**9.6.7 Public Action details**

*TGbf editor: Please update subclause 9.6.7.52 (Sensing Measurement Setup Termination frame format) as follows.*

**9.6.7.52 Sensing Measurement Setup Termination frame format**

The Sensing Measurement Setup Termination frame is used to terminate sensing measurement setup(s). The format of the Sensing Measurement Setup Termination frame Action field is shown in Figure 9-1139e (Sensing Measurement Setup Termination frame Action field format).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Category | Public Action | Dialog Token | Measurement Setup ID Information | TBD |
| Octets: | 1 | 1 | 1 | 1 | TBD |

**Figure 9-1139e – Sensing Measurement Setup Termination frame Action field format**

The Category field is defined in 9.4.1.11 (Action field).

The Public Action field is defined in 9.6.7.1 (Public Action frames).

The Dialog Token field is defined in 9.4.1.12 (Dialog Token field) and set by the requesting sensing STA.

The Measurement Setup ID Information field is used to indicate the identifier of the sensing measurement setup to be terminated. The format of the Measurement Setup ID Information field is shown in Figure 9-xxxx (Measurement Setup ID Information field format).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Termination All TB Measurement Setups | Termination All non-TB Measurement Setups | TB/non-TB Measurement Setup Type | Measurement Setup ID | Reserved |
| Bits: | 1 | 1 | 1 | TBD | 5 - TBD |

**Figure 9-xxxx – Measurement Setup ID Information field format**

The Terminate All TB Measurement Setups subfield is set to 1 to indicate that the STA requests to terminate all sensing measurement setups established in TB case, then TB/non-TB Measurement Setup Type field and Measurement Setup ID field are reserved. The Terminate All TB Measurement Setups subfield is set to 0 to indicate that the STA not requests to terminate all the sensing measurement setups established in TB case.

The Terminate All non-TB Measurement Setups subfield is set to 1 to indicate that the STA requests to terminate all sensing measurement setups established in non-TB case, then TB/non-TB Measurement Setup Type field and Measurement Setup ID field are reserved. The Terminate All non-TB Measurement Setups subfield is set to 0 to indicate that the STA not requests to terminate all the sensing measurement setups established in non-TB case.

If Terminate All TB Measurement Setups subfield and the Terminate All non-TB Measurement Setups subfield are set to 0, the TB/non-TB Measurement Setup Type field is used to indicate the Measurement Setup ID contained in Measurement Setup ID field is assigned in TB or non-TB case. The TB/non-TB Measurement Setup Type field is set to 0 to indicate that the Measurement Setup ID contained in Measurement Setup ID field is assigned by AP for the TB measurement instance; and set to 1 to indicate the Measurement Setup ID contained in Measurement Setup ID field is assigned by non-AP STA for the non-TB measurement instance.