IEEE P802.11
Wireless LANs

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| Proposed Draft Text for Sensing measurement setup termination |
| Date: 2022-03-03 |
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Abstract

This document includes proposed draft text for the “Sensing measurement setup termination” sub-clause as defined in TGbf’s SFD.

**Revision history:**

* r0: Initial version.
* r1: Revised based on Ali’s comments.The format of Measurement Setup Termination frame is added.
* r2: Further revised based on Ali’s comments.
* r3: delete measurement setup request/response indication.
* r4: Frame format is further revised based on Solomon’s and Ali’s comments.
* r5: Further revised according to March 3 TGbf meeting.

**Current SFD text related to this topic:**

### 7.1.5 Sensing measurement setup termination

(Motion 35, 21/1701r1) The following holds for sensing measurement setup termination:

* The device keeps active the established sensing measurement setup identified with the Measurement Setup ID until it is terminated.
* Termination of the sensing measurement setup identified with the Measurement Setup ID by one device does not impact the activity of this sensing measurement setup of another device(s)/session(s).
* Termination of the sensing measurement setup identified with one Measurement Setup ID does not impact the device/session activity of another sensing measurement setup with a different Measurement Setup ID.
* The sensing initiator and/or the sensing responder may initiate termination of the sensing measurement setup.
* A handshake between the sensing initiator and the sensing responder and/or expiration of the predefined inactivity time may terminate the sensing measurement setup. (Detailed protocol is TBD.)
* The sensing initiator and the sensing responder may release the resources they allocated to store the setup after the termination of the sensing measurement setup.
* The sensing initiator shall not indicate the Measurement setup ID of the terminated sensing measurement setup in the sensing measurement instances it initiates.
* The sensing initiator may ignore the pending report(s) indicated to belong to the terminated sensing measurement setup.
* The sensing responder should not respond to request/poll/trigger that all sensing measurement setups it indicates are terminated.
* The sensing responder should not transmit the report that indicates the terminated sensing measurement setup.

**Proposed Spec Text Contribution:**

**11.21.X WLAN sensing (SENS) procedure**

*Editor: Insert clause 11.21.X.5 as follows:*

**11.21.X.5 Sensing measurement setup termination**

A sensing initiator (or sensing responder) may initiate termination of one or more sensing measurement setups by transmiting a Sensing Measurement Setup Termination frame with the Measurement Setup IDs of the measurement setups to be terminated to sensing responder (or sensing initiator).

Expiration of the predefined inactivity time may terminate the sensing measurement setup. (Detailed protocol is TBD.)

Note: The sensing initiator and the sensing respondercan release the resources they allocated to store the sensing measurement setup after the termination of the sensing measurement setup.

 The sensing initiator shall not include the sensing responder in any sensing measurement instance corresponding to the terminated sensing measurement setup. The sensing initiator may ignore obtaining the pending sensing measurement report(s) buffered by the sensing receiver when sensing measurement setup is terminated.

The sensing responder should not participate in any sensing measurement instance (TB or Non-TB) corresponding to the terminated sensing measurement setup.

**Discussion:**

According to Motion 53, 11bf shall define **both public and protected action frames**, which include sensing measurement setup request/response, sensing measurement report, **sensing measurement setup termination**, and SBP request/response/termination frames.

Therefore, the following public action frame format and protected dual of public action frame format of Sensing Measurement Setup Termination frame are proposed.

**9.6 Action frame format details**

**9.6.7 Public Action details**

**9.6.7.1 Public Action frames**

***TGbf editor: Please insert the following new row to Table 9-447 (Public Action field values):***

**Table 9-447 – Public Action field values**

|  |  |
| --- | --- |
| Public Action field value | Description |
| <ANA> | Sensing Measurement Setup Termination frame |
| <ANA+1>–255 | Reserved |

***TGbf editor: Please add a new subclause 9.6.7.x (Sensing Measurement Setup Termination frame format) under subclause 9.6.7 as follows.***

**9.6.7.x Sensing Measurement Setup Termination frame format**

The Sensing Measurement Setup Termination frame is used to termiate one or more sensing measurement setups. The format of the Sensing Measurement Setup Termination frame Action field is shown in Table 9-xxx (Sensing Measurement Setup Termination frame Action field format).

**Table 9-xxx – Sensing Measurement Setup Termination frame Action field format**

|  |  |
| --- | --- |
| Order | Information |
| 0 | Category  |
| 1 | Public Action  |
| 2 | Dialog Token |
|  |  |
| 3 | Measurement Setup ID Infomation |
| 4 | TBD |

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.

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The Measurement Setup ID Information field/element is TBD.

**9.6.10 Protected Dual of Public Action frames**

***TGbf editor: Please insert the following new row to Table 9-487 (Public Action field values defined for Protected Dual of Public Action frames):***

**Table 9-487 – Public Action field values** **defined for Protected Dual of Public Action frames**

|  |  |  |
| --- | --- | --- |
| Public Action field value | Description | Defined in |
| <ANA> | Protected Sensing Measurement Setup Termination | 9.6.7.x (Sensing Measurement Setup Termination frame format(11bf)) |
| <ANA+1>–255 | Reserved |  |