IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resolution of DMG sensing procedure TBDs | | | | |
| Date: 2022-12-12 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Solomon Trainin | Qualcomm |  |  | strainin@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

Resolution of the DMG TBDs

Revisions History:

r0 – initial version

r1 – a few typos of the name convention resolved

***TGbf Editor, append to the subclause***

**6.3.138.13.1 Function**

This primitive confirms the transmission of a DMG Sensing Measurement Setup Termination frame to a peer STA, or that the sensing measurement setup(s) are terminated implicitly as the result of the measurement setup expiry timer expired.

**6.3.138.13.3 When generated**

This primitive is generated by the MLME as a result of the MLME-DMG-SENSMSMTTERMINATION.

request primitive, or that the sensing measurement setup(s) are terminated implicitly as the result of the measurement setup expiry timer expired.

**Annex C**

(normative)

**ASN.1 encoding of the MAC and PHY MIB**

**C.3 MIB Detail**

***TGbf Editor, append to the list***

dot11DMGSensingProcedureExpiry Unsigned32 (TBD value)

***TGbf editor, append to the subclauses***

**11.55.3.7 DMG sensing measurement setup termination**

After it is established (see 11.55.3.3 DMG sensing session setup**)** a DMG sensing measurement setup is terminated either explicitly or implicitly. Under the explicit sensing measurement setup termination, a DMG STA uses the DMG Sensing Measurement Setup Termination frame (9.6.21.11 DMG Sensing Measurement Setup Termination frame format) for the sensing measurement setup termination. Under the implicit sensing measurement setup termination, the DMG sensing measurement setup is terminated after the expiration of the DMG sensing procedure expiry timer.

DMG Sensing measurement setup(s) may be terminated explicitly at any time by either the DMG sensing initiator or the DMG sensing responder by transmitting an individually addressed DMG Sensing Measurement Setup Termination frame.

The explicit sensing measurement setup termination is initiated by issuing an MLME-DMG-SENSMSMTTERMINATION.request primitive. Upon reception of an MLME-DMG-SENSMSMTTERMINATION.request primitive, the DMG STA shall initiate the termination of sensing measurement setup(s) by transmitting the DMG Sensing Measurement Setup Termination frame with the RA field set to the MAC address indicated in the primitive. The DMG STA that initiates the termination of sensing measurement setup(s), shall issue an MLME-DMG-SENSMSMTTERMINATION. confirm primitive upon completion of the transmission of the DMG Sensing Measurement Setup Termination frame and terminate the indicated DMG sensing measurement setup(s). The DMG STA that receives the DMG Sensing Measurement Setup Termination frame addressed to it, shall issue an MLME-DMG-SENSMSMTTERMINATION. indication primitive and shall terminate the indicated sensing measurement setup(s).

For the implicit DMG sensing measurement setup termination of the measurement setup, the sensing initiator and the sensing responder shall use the DMG sensing procedure expiry timer. The DMG sensing procedure expiry timer maintains the DMG measurement setup identified with the DMG Measurement Setup ID between the sensing initiator and the sensing responder. The DMG sensing procedure expiry timer shall be set to the dot11DMGSensingProcedureExpiry value at

— the success of the procedure specified in 11.55.3.3 (DMG sensing session setup)

— the exchange of DMG Sensing Request and DMG Sensing Response frames is completed in the Coordinated DMG sensing instance (see 11.55.3.6.2 Coordinated monostatic DMG sensing instance, 11.55.3.6.4 Coordinated bistatic DMG sensing instance, and 11.55.3.6.5 Multistatic EDMG sensing instance)

— the exchange of the BRP frames is completed in the Bistatic DMG sensing instance (see 11.55.3.6.3 Bistatic DMG sensing instance).

Upon expiry of the DMG sensing procedure expiry timer, the sensing initiator and sensing responder shall terminate the DMG sensing measurement setup and issues an MLME-DMG-SENSMSMTTERMINATION.confirm primitive to the SME.

Once the sensing measurement setup between a sensing initiator and a sensing responder is terminated, the sensing responder shall not participate in any sensing measurement instance associated with the DMG Measurement Setup ID of a terminated measurement setup.

**11.55.3.8 DMG sensing session termination**

In the DMG sensing session termination, an PCP/AP and a non-PCP and non-AP STA terminate the DMG sensing session established between them. When the DMG sensing session between an PCP/AP and a non-PCP and non-AP STA is terminated, all active DMG sensing measurement setups established between the PCP/AP and the non-PCP and non-AP STA shall be terminated.

The DMG sensing session between an PCP/AP and an associated non-PCP and non-AP STA shall be terminated when the non-PCP and non-AP STA disassociates with the PCP/AP, i.e., the DMG sensing session termination procedure is the disassociation procedure.

**References:**