IEEE P802.11
Wireless LANs

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Abstract

This document provides comment resolution for CIDs 4186 using **REVmeD4.2** and **11beD5.0** as **references.**

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| **CID** | **Commenter** | **Page(C)** | **Line(C)** | **Category** | **Comment** | **Proposed Change** | **Resolution** |
| 4186 | Manish Kumar |   |   | G | Clarify whether sensing is allowed for STA in EMLSR/EMLMR mode. | As in comment |  Revise |

Discussion: Commnter is asking to include a normative behavior for a functionality that was introduced in 11be specification where AP needs to send a special control frame (Initial Control Frame, ICF) to an associated non-AP STA in the eMLSR mode before transmission of other frames. The eMLSR stands for enhaced Multi-Link Single-Radio where non-AP STA supports more than one link (for example, two separate 1x1, 5GHz & 2.4GHz) listening to AP and when directed by Ap, the non-AP STA switches the desired link (for example, 2x2 in 5GHz) before AP sends other frames. Supporting this feature for sensing requires normative text in various sections including sensing session establishment, sensing measurement exchange(s), sensing measurement termination, SBP setup and SBP termination.

*Resolution to CID 4186*

*Instruction to TGbf editor: Add paragraph below in section 11.55.1.1 (Overviewl) P137P44 as follows:*

NOTE: Prior to the transmission of any sensing measurement frame(s) including Sensing measurement Request frame, Sensing Measurement Response frame and/or Sensing Measurement Termination frame sent by an AP to an associated non-AP STA in the eMLSR mode, the AP needs to transmit an initial control frame exchange (see section 35.3.17 Enhanced multi-link single radio operation) to follow the baseline behavior. The transmission of an ICF is not required for an unasscoiated non-AP STA.

*Instruction to TGbf editor: Add paragraph below in section 11.55.1.5.2.1 (General) P146P30 as follows:*

To perform a TB sensing measurement exchange that includes at least one associated sensing responder in the eMLSR mode, the AP shall transmit an initial control frame (see section 35.3.17 Enhanced multi-link single radio operation) at the beginning of the TB sensing measurement exchange (see Figure 11-xxx TB sensing measurement exchange with an ICF).

NOTE: Only an associated sensing responder can be in the eMLSR mode whereas an unasscoiated sensing responder does not need the transmission of an initial control frame exchange prior to the transmission of the triplet of Polling, Measurement Sounding and Measurement Reporting phases.

NOTE: AP can consider seting the Polled Assigned field of the TB Sensing Specific subelement to 0 in the Sensing Measurement Request frame sent to an associated sensing responder in the eMLSR mode so that it can avoid including the polling phase in the TB sensing measurement exchange as the BSRP Trigger frame used for an ICF exchange is essentially providing the device availability. The MU RTS trigger frame as an ICF is intended for a broadcast address seeking to obtain a non-HT duplicate CTS frame from all devices so that NAV can be set by the legacy devices sa MAC protection, but not to provide a mechnism to identiy the device availability.



Figure 11-xxxx TB sensing measurement exchange with an ICF

*Instruction to TGbf editor: Add paragraph below in section 11.55.1.6 (Sensing measurement termination) P164P22 as follows:*

NOTE: Prior to the transmission of any SBP frame(s) including SBP Request frame and/or SBP Termination frame sent by an SBP responder to an associated SBP initiator in the eMLSR mode, the SBP responder needs to transmit an initial control frame exchange (see section 35.3.17 Enhanced multi-link single radio operation) to follow the baseline behavior. The transmission of an ICF is not required for an unasscoiated SBP initiator.

**References: REVmeD4.2 & 11beD5.0**