IEEE P802.11
Wireless LANs

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| PDT for TB sensing measurement instance: Reporting |
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Abstract

This document includes proposed draft text for “Trigger based sensing measurement instance: Reporting” sub-clause as defined in TGbf’s SFD.

R0: Initial document

R1: Minor editorials

R2: Added motion 60

# Discussion

In this document, we propose draft text for the TB sensing measurement instance: Reporting. The motions already included in the SFD for this topic are:

(Motion 15, 20/1851r4; Motion 29, 21/1543r1) In the reporting phase of a sensing measurement instance, sensing measurement results are reported.

(Motion 11, 21/0147r3; Motion 29, 21/1543r1) Results of measurements performed in a WLAN sensing procedure should be obtained by or reported to its initiator.

(Motion 21, 21/0908r2) Transmission of the Sensing Measurement Report frame is initiated by an MLME primitive. Both immediate and delayed reporting are acceptable.

(Motion 34, 21/1438r1) In the reporting phase, sensing measurement results of multiple sensing measurement setups of a sensing responder may be included in a single Sensing Measurement Report frame for delayed reporting.

* Support for obtaining more than one sensing measurement result in a single Sensing Measurement Report frame sent by the sensing responder is optional for the sensing initiator.
* Support for buffering more than one sensing measurement result and sending it in a single Sensing Measurement Report frame to the sensing initiator is optional for the sensing responder.

(Motion 60, 22/0038r2) For the case when the sensing initiator is the sensing transmitter, the reporting of sensing measurement results to the sensing initiator is optional.

The format of TB sensing measurement report frame is beyond the scope of this text.

***Editing instructions formatted like this are intended to be copied into the TGbf Draft (i.e., they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbf Editor: Editing instructions preceded by “TGbf Editor” are instructions to the TGbf editor to modify existing material in the TGbf draft. As a result of adopting the changes, the TGbf editor will execute the instructions rather than copy them to the TGbf Draft.***

***TGbf editor: Add new a subclause 11.21.x.y.z (TB sensing measurement instance: Reporting) under clause 11 as follows: (TTT: will be updated later)***

# 11.21.x.y. TB sensing measurement instance

# 11.21.x.y.z Reporting Phase

The last phase of TB sensing measurement instance is the reporting phase. In the reporting phase of a sensing measurement instance, sensing measurement results are reported. When negotiated, the sensing transmitter which is an initiator shall send the Sensing Trigger Report frame during the reporting phase and assign RUs to the sensing receiver which is a responder to obtain measurement report frame containing the measurement results. The sensing receiver which is a responder shall provide a measurement report frame in the assigned RUs with either results obtained from the I2R NDP of current measurement instance, when negotiated to deliver immediate feedback reporting, or results obtained from the I2R NDP of the previous measurement instance, when negotiated to deliver delayed feedback reporting.

The transmission of Sensing Measurement Report frame is initiated by an MLME primitive. The sensing measurement reporting can be either immediate or delayed.

For delayed reporting, sensing measurement results of multiple sensing measurement setups of a sensing responder may be included in a single Sensing Measurement Report frame. When negotiated, the sensing initiator may assign RUs to obtain more than one measurement result in a single measurement report frame. A sensing responder may optionally transmit more than one delayed measurement results during the assigned RUs sent by the initiator in the Sensing Trigger Report frame.