IEEE P802.11
Wireless LANs

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| Comment Resolution for CIDs Related to WLAN Sensing Procedure Overview (11.21.18.1) |
| Date: 2022-06-29 |
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Abstract

This document proposes resolutions to the following CC40 CIDs: 89, 187, 474, 532, 606, 776, 777, 803, 814, 846, 847, 849, and 875. All CIDs relate to clause 11.21.18.1 in 802.11bf D0.1.

R0: Initial resolution proposals.

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| 532 | 11.21.18.1 | 64.42 | For successful sensing measurement, all procedures seem to be needed in my understanding. for example, without measurement setup or measurement instance, I am not sure if the sensing operation can be done successfully. So, all procedures should be included in the sending measurement. | Modify the text on P64L42 as following" A WLAN sensing procedure is composed of the following: Sensing session setup, sensing ..." | Revised:Several comments applicable to the same paragraph were combined. |
| 803 | 11.21.18.1 | 64.42 | "A WLAN sensing procedure is composed of one or more of the following..." Is it more correct to describe these as components of a 'WLAN sensing session', which is 'an instance of a WLAN sensing procedure' | Please clarify. Follow the convention used in describing other 11.21.x procedures. | Revised:Several comments applicable to the same paragraph were combined. |
| 846 | 11.21.18.1 | 64.42 | It is partially true that a WLAN sensing procedure is composed of one or more of the following exchanges. For example it is not possible to have a measurement instance without a preceding measurement setup. Therefore, this statement is not percise. | Change text to: "A WLAN sensing procedure may be composed of one or more of the following exchanges:" | Revised:Several comments applicable to the same paragraph were combined. |

***TGbf Editor: Modify the text in 64.42-46 as follows:***

A sensing session is an instance of a WLAN sensing procedure (#803). ~~is composed of one or more of the following:~~ ~~Sensing~~ A sensing session includes at least a sensing session setup, and may additionally include one or more of the following exchanges (#846): sensing measurement setup, ~~sensing measurement instances,~~ sensing measurement setup termination, and sensing session termination (#532). A ~~WLAN sensing procedure~~ sensing session (#803) may be comprised of multiple sensing measurement instances.

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| 89 | 11.21.18.1 | 64.52 | Text doesn't allow all options | The text in 11.21.18.1 states: "A sensing measurement instance is a time interval when sensing measurements are obtained, and it can be one of two methods: Trigger-based (TB) sensing measurement instance or non-TB sensing measurement instance". However, the folloowing sections allow in 11.21.20 "DMG sensing procedure" which is not TB nor non-TB. Hence the text is wrong. It should state that DMG sensing is also an option. I suggest to repharase this sentence to state 3 options: TB, non-TB and DMG. | Accept:Sentence rephrased to include DMG option. |
| 187 | 11.21.18.1 | 64.54 | "A sensing measurement instance is active until terminated in a sensing measurement setup termination." This should be "A sensing measurement setup is active until terminated in a sensing measurement setup termination", because a sensing measurement instance can be terminated after the corresponding frame exchange sequence is over. | As in comment. | Revised:Several comments applicable to the same paragraph were combined. |
| 606 | 11.21.18.1 | 64.54 | "A sensing measurement instance is active until terminated in a sensing measurement setup termination", does this mean the instance ID shall not be reused corresponding to an MS? | Change the sentence to "A sensing measurement instance is active until the report of the instance has been obtained". | Revised:Several comments applicable to the same paragraph were combined. |
| 776 | 11.21.18.1 | 64.52 | A sensing measurement instance is not a time-window but is rather a prcoedure i.e., it consists of the frame exchanges. | Clarify the text to say "A sensing measurement instance is an instance of a sensing procedure between ... It consists of: ..." | Revised:Several comments applicable to the same paragraph were combined. |
| 777 | 11.21.18.1 | 64.55 | The sensing measurement termination is not a typical phase. Furthermore, the session may also end for other reasons e.g., after disassociating a STA. | Delete "in a sensing measurement setup termination". | Revised:Several comments applicable to the same paragraph were combined. |
| 814 | 11.21.18.1 | 64.54 | We have defined a sensing measurement instance is a time interval...Then we mentioned "A sensing measurement instance is active until terminated in a sensing measurement setup termination." it is a little bit confusing how a time interval could be active until terminated? | Please clarify | Revised:Several comments applicable to the same paragraph were combined. |
| 847 | 11.21.18.1 | 64.52 | A sensing measurement instance is not really a "time interval", but rather an exchange resulting in the ability to obtain and/or report channel measurements. | Change text to: "A sensing measurement instance is an exchange resulting in the ability to obtain and/or report channel measurements." | Revised:Several comments applicable to the same paragraph were combined. |
| 849 | 11.21.18.1 | 64.54 | The sensing measurement setup termination terminates a sensing measurement setup, not a sensing instance. A sensing instance includes phases but does not have a termination. | Change text to:"A sensing measurement setup is active until terminated in a sensing measurement setup termination." | Revised:Several comments applicable to the same paragraph were combined. |
| 875 | 11.21.18.1 | 64.51 | It is not proper to call A sensing measurement instance is a time interval. | Change the sentence to "In a sensing measurement instance, one or more sensing measurements may occur. Each sensing measurement can be one of two methods: Trigger-based (TB) sensing measurement instance or non-TB sensing measurement instance." | Revised:Several comments applicable to the same paragraph were combined |

***TGbf Editor: Modify the text in 64.48-56 as follows:***

In the sensing session setup, a sensing session is established, and in the sensing measurement setup, operational

attributes associated with a sensing measurement instance are set. One or more sensing measurement setups may be established between a sensing initiator and a sensing responder. A sensing measurement

instance is a ~~time interval~~ procedure within a sensing session which includes an exchange resulting in the ability to ~~when~~ obtain and/or report sensing measurements ~~are obtained~~ (#776, #814, #847, #875), ~~and it can be~~ utilizing one of ~~two~~ three methods: Trigger-based (TB) sensing measurement instance, ~~or~~ non-TB sensing measurement instance, or DMG sensing instance (#89). An active sensing measurement ~~instance~~ setup (#187, #606) ~~is active until~~ may be terminated ~~in~~ by a sensing measurement setup termination (#777, #849). In the sensing session termination, a sensing session is terminated.

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| 474 | 11.21.18.1 | 65.04 | The set of operational attributes used in a sensing measurement instance are also determined in the sensing measurement setup. | It implies all of the attributes for measurement instance ID are determined in Measurement Set-up, but it is not true. It should be changed to "Some set of operational attributes used in a sensing measurement instance are also determined in the sensing measurement setup." | Revised |

***TGbf Editor: Modify the text in 65.2-4 as follows:***

As defined in 11.21.18.3 (Sensing session setup), the sensing transmitter and sensing receiver roles are

determined during the sensing measurement setup. The set of operational attributes used in a sensing measurement

instance ~~are~~may also be determined in the sensing measurement setup (#474).

**References:**

[1] Draft P802.11bf\_D0.1