IEEE P802.11
Wireless LANs

|  |
| --- |
| Comment resolution for sensing session part 1 |
| Date: 2022-08-31 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Chaoming Luo | OPPO |  |  | luochaoming@oppo.com |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission resolves comments of CID 807, 399, ~~463~~, 857, 142, 143, 806, which are related to the definition and identification of ‘sensing session’.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: CID 463 is deferred; Editorial changes for CID 142 and 143.

# Discussion

SP3 shows majority support (**4A/16B/10C**) for keep sensing session as in the proposal in 21/1934r9 “Discussion on Session Setup”.

* **Which of the following options do you prefer?**
	+ **Option A**: Remove sensing session, add a subclause to describe sensing capability exchange for all STAs, and describe the active/inactive state machine for U-STA only.
	+ **Option B**: Keep sensing session for all STAs, describe sensing capability exchange in sensing session setup for all STAs, and describe the active/inactive state machine in sensing session for U-STA only.
	+ **Option C**: Abstain

# 807

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| **807** | James Yee | 66.51 | "A sensing session is an agreement" seems to imply that a 'sensing session' is an abstract concept, when it is more of 'an instance of a WLAN sensing procedure' | Please clarify. | ***Rejected****:* The term ‘agreement’ is used similarly in the baseline, e.g., the block ack agreement, GCR agreement.And it is NOT ‘an instance of a WLAN sensing procedure’, since a Wlan sensing procedure typically involves multiple STAs, while a sensing session involves only one AP and one non-AP STA. |

# 399

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| **399** | Hassan Omar | 64.48 | The term 'sensing session' is undefined in the draft | Add a definition of the term 'sensing session' | ***Revised****:* There was a definition, just need to be put in the right place.*TGbf editor to make the changes shown in IEEE 802.11-22/1342r1 under all headings that include CID 399.*  |

**Discussion:**

The term ‘sensing session’ is defined in clause *‘11.21.18.3 Sensing session setup’*, while its first appearance is in clause *‘11.21.18.1 Overview’*, it’s better to define the term when it first appears.

*11.21.18.1 Overview in D0.1 refered by the comments:*



*11.21.18.3 Sensing session setup in D0.2:*



And propose to refine the current wording to clarify sensing session is always established between an AP and a non-AP STA, there is **NO** non-AP STA to non-AP STA sensing session.

**Resolution:**

*TGbf Editor: Please modify P79L45 in clause‘11.21.18.1 Overview’ of 11bf D0.2 as following:*

In the sensing session setup, a sensing session, which is an agreement between an AP and a non-AP STA to participate in a WLAN sensing procedure, (#399) is established.~~, and in~~ In the sensing measurement setup, operational parameters associated with sensing measurement instance(s) are set(#429, #665, #848, #852, #853, #854, #856, #858, #859, #841).

*TGbf Editor: Please modify P82L23 in clause ‘11.21.18.3 Sensing session setup’ of 11bf D0.2 as following:*

~~A sensing session is an agreement between a sensing initiator and a sensing responder to participate in a WLAN sensing procedure.~~ (#399)

# 463

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| **463** | Sang Gook Kim | 66.55 | Identify the operational parameters associated with the sensing session and provide detail information. | As in the comment. | ***Revised****:* The group has discussed and agreed, no ‘session’ specific operational parameters are identified so far, propose to remove the paragraph refered by the comments.*TGbf editor to make the changes shown in IEEE 802.11-22/1342r0 under all headings that include CID 463.* |

**Discussion:**

The paragraph in clause *11.21.18.3 Sensing session setup in D0.1* refered by the comments*:*



*TGbf Editor: Please modify P82L27 in clause ‘11.21.18.3 Sensing session setup’ of 11bf D0.2 as following:*

In the sensing session setup of a WLAN sensing procedure, a sensing session is established~~, and operational parameters associated with the sensing session are determined and may be exchanged between STAs~~. (#463)

# 857

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| **857** | Chris Beg | 66.51 | One or more sensing responders participate in a sensing session, e.g., in the case where the sensing initiator is neither the sensing transmitter nor the sensing receiver. | Change text to:"A sensing session is an agreement between a sensing initiator and one or more sensing responders to participate in a WLAN sensing procedure." | ***Rejected****:* The group has discussed and agreed, sensing session is always established between an AP and a non-AP STA.  |

# 142, 143, 806

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 142 | Mahmoud Kamel | 66.58 | "A sensing session is pairwise and is identified by MAC addresses". It is not clear the MAC addresses in this sentence refer to what. | Change to "A sensing session is pairwise and is identified by MAC addresses of the sensing responders ..." | ***Revised****:* Agree in principle.*TGbf editor to make the changes shown in IEEE 802.11-22/1342r1 under all headings that include CID 142.* |
| 143 | Mahmoud Kamel | 66.58 | "A sensing session is pairwise and is identified by MAC addresses and/or associated AID/UID.". In this sentence, it is mentioned that the sensing session may be also identified by the AID/UID. However, the sentence reads " ... and/or associated AID/UID ...". the UID is used only for unassociated STAs which may make this sentence confusing. | Change to " ... and/or the AID of associated STAs or the UID of unassociated STAs." | ***Revised****:* Agree in principle.*TGbf editor to make the changes shown in IEEE 802.11-22/1342r1 under all headings that include CID 143.* |
| **806** | James Yee | 65.19 | In " a sensing session identified by the AID of STA A (AID 1)", why is a session identified by one AID when multiple STAs may be involved. | Please clarify. | ***Rejected****:* The group has discussed and agreed, sensing session is always established between an AP and a non-AP STA.  |

**Discussion:**

The paragraph in clause *11.21.18.3 Sensing session setup in D0.1* refered by the comments*:*



The paragraph was updated by 22/1245r5 as following, which has removed the words ‘is pairwise’*:*



*TGbf Editor: Please modify P82L31 in clause ‘11.21.18.3 Sensing session setup’ of 11bf D0.2 as following:*

A sensing session is identified by ~~MAC addresses and/or~~ ~~associated AID/USID~~ the tuple: <AP’s MAC Address, non-AP STA’s identifier>, where the non-AP STA’s identifier is

 - AID of the associated non-AP STA, or

 - USID of the non-AP STA when the non-AP STA is unassociated with the AP and is assigned to be a sensing responder, or

 - MAC address of the non-AP STA otherwise. (#228, #729, #24, #142, #143).

# SP

Do you support resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 807, 399, ~~463~~, 857, 142, 143, 806 in 11-22/1342r1 [6 CIDs]

Y/N/A