IEEE P802.11
Wireless LANs

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| PDT DMG sensing: monostatic configurations |
| Date: 2022-01-24 |
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Abstract

This submission proposes the draft text for the DMG sensing: monostatic configurations

The following Motion is related to this PDT:

[Motion 40] (Motion passed)

**Move to add the following to 11bf SFD:**

* DMG/EDMG-based WLAN sensing supports both monostatic sensing and monostatic sensing with coordination configurations.
* In the monostatic sensing with coordination configuration, the transmissions of one or more devices that perform monostatic sensing are coordinated by a PCP/AP.

***Proposed draft text:***

***TGbe editor: Insert the following part of monostatic sensing to 7.3.2 Monostatic sensing.***

**7.3.2 Monostatic sensing**

DMG/EDMG based WLAN sensing support both monostatic sensing and coordinated monostatic sensing. In monostatic sensing, only one device performs monostatic sensing. In coordinated monstatic sensing, more than one devices that are coordinated by a PCP or an AP to perform monostatc sensing.

**7.3.2.1 Monostatic sensing**

In monostatic sensing, a sensing PPDU is transmitted and recieved by the same device that performs monostatic sensing.

If the initiator is the responder in monostatic sensing, the sensing initiator/responder shall be capable of monostatic sensing and perform monostatic sensing by itself. The device who performs monostatic sensing can transmit a sensing PPDU based on CSMA/CA and receive the PPDU. The sensing measurement results may not be transmitted to other devices.

If the initiator is not the responder in DMG/EDMG monostatic sensing, the initiator manages the responder to perform monostatic sensing. Initiator may be a deivce which is not capable of monostatic sensing. Responder shall be a STA which is capable of monostatic sensing. The responder that performs monostatic sensing is managed by the initiator (PCP or AP). The sensing measurement results shall be fed back to the initiator.

**7.3.2.2 Coordinated monostatic sensing.**

In coordinated monostatic sensing, more than one devices are coordinated to perform monostatic sensing.

In coordinated monostatic sensing, the initiator (PCP or AP) may be a device which is not capable of monostatic sensing. All responders shall be the devices which are capale of monostatic sensing. In coordinated monostatic sensing, multiple responders are coordinated by the PCP or the AP to perform monostatic sensing sequentialy or simultaneously. The sensing meausurement results shall be fed back to the initiator (PCP or AP).