IEEE P802.11
Wireless LANs

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| LB281-DMG-CID-4117 |
| Date: 2024-01-24 |
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Abstract

This document proposes resolution to LB281 CIDs: 4117

The changes are relative to IEEE P802.11-REVbf/D3.0, December 2023

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| **CID** | **Section** | **Page****Line** | **Comment** | **Proposed Change** | **Resolution** |
| 4117 | 11.55.3.6.2.1 | P181L11 | In section "11.55.3.6.2.1 General" it is stated that the responder shall used the TX beams in a sequential order as in "TX Beam List subelement". However, in the case of parallel coordinated monostatic case it may generate static interference. Meaning, repeating interference. | Suggest to keep the existing text for sequential monostatic (and move text to corresponding section) and for the parallel monostatic instruct the responder to randomize the order (randomization algo is implementation specific) and add the relevant text in corresponding section. Detailed submission will be provided. | **Revised:** TGbf Editor make changes as in:https://mentor.ieee.org/802.11/dcn/24/11-24-0191-00-00bf- LB281-DMG-CID-4117.docx |

**Discussion:**

In previous LB276 the issue of interference in Parallel coordinated monostatic DMG sensing measurement exchange was raised (CID#3331, 3332, 3333) and a nice solution to avoid interference when number of responders is up to the number of single channels available, was suggested and adopted (see 11-23-2008-03-00bf-lb276-crs-for-dmg-sensing-part-3.docx).

In this submission it is suggested to add another technique to reduce the interference and facilitate false detection cleanup in post processing.

The initiator shall randomize the first beam used by the sensing responders in Parallel coordinated monostatic DMG sensing measurement This will reduce significantly the repeated interference between the responders.

No change in Sequential coordinated monostatic DMG sensing measurement exchange.

***TGbf Editor: add the following paragraph in section 11.55.3.6.2.3 page 184 line 60 (as third bullet):***

* The initiator shall randomize the value indicated in First Beam Index field in every DMG Sensing Measurement Request frame. The randomization algorithm is implementation specific.

Straw Poll:

Do you agree with the proposed resolutions in revision 0 of this document?

Y/N/A