IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Link Measurement Request and Report frames in DMG | | | | |
| Date: 2019-09-17 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Payam Torab | Facebook |  |  | torab@ieee.org |
| Solomon Trainin | Qualcomm |  |  | strainin@qti.qualcomm.com |
| Carlos Coreiro | Intel |  |  | carlos.cordeiro@intel.com |
| Hiroyuki Motozuka | Panasonic |  |  | motozuka.hiroyuki@jp.panasonic.com |

Make Link Measurement Request and Report frames Robust and Class 3 in DMG, similar to other bands.

**Discussion:**

Link Measrement Request and Link Measurement Report frames are not defined as Robust in DMG, unlike other bands. As a result, these frames wil not be encypted when management frame protection service is enabled in DMG.

Also, they are defined as Class 1 frames in DMG, again unlike other bands. After reviewig existing implementations and certification programs,

* We are not aware of 60 GHz products that (1) use these two frames (pre- or post-association), and (2) have implemented the 802.11 management frame protection, e.g., products that are WFA PMF certified.
* We are not aware of implementations that use these two frames as Class 1.

We propose to remove the DMG exceptions for these two frames by (1) defining them as Robust, and (2) making them Class 3, i.e., the same definition for these two frames in all bands.

**9.4.1.11 Action field**

**Table 9-53—Category values**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | **Meaning** | **See subclause** | **Robust** | **Group**  **addressed**  **privacy** |
| 5 | Radio Measurement | 9.6.6 (Radio  Measurement  action details) | ~~See NOTE 1~~Yes | No |
|  | … | … | … |  |

~~NOTE 1—Radio Measurement frames are robust, except for Link Measurement Request and Link Measurement Report frames in a DMG BSS.~~

**11.3.3 Frame filtering based on STA state**

…

The frame classes are defined as follows:

                a) Class 1 frames

                                …

                                2) Management frames

                                                …

~~vii) In a DMG BSS, Link Measurement Request and Link Measurement Report frames~~