IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 802.11  [802.11az Spec Text for CFO Feedback in ISTA-TO-RSTA LMR]  (relative to 11az D0.4) | | | | |
| Date: 2018-09-11 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | Email |
| Feng Jiang | Intel Corporation | 3600 Juliette Ln, Santa Clara, CA 95054 |  | feng1.jiang@intel.com |
| Qinghua Li | Intel Corporation |  |  | qinghua.li@intel.com |
| Jonathan Segev | Intel Corporation |  |  | jonathan.segev@intel.com |
| Robert Stacey | Intel Corporation |  |  | robert.stacey@intel.com |

**Abstract**

This submission proposes P802.11az draft amendment text for the P802.11az CFO feedback in ISTA-to-RSTA LMR. The baseline documents that this proposal depends on are:

1. D0.05 of REVmd
2. D8.0 of PIEEE802.11aj
3. D5.0 of PIEEE802.11ak
4. D13.0 of PIEEE802.11aq

History:

#### *TGaz Editor: change Figure 9-xxx (Fine Timing Measurement Report Action field format) in 9.6.7.37 Location Measurement Report frame format of 11az D0.4 as follows:*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Category | Public Action | | Dialog Token | | | ToD | ToA | ToD Error | ToA Error |
| Octets: | 1 | 1 | | 1 | | | 6 | 6 | 2 | 2 |
|  | CFO  Parameter  (optional) | Secure LTF Parameters (optional) | Ranging CSI Information (optional) | | |
| Octets: | <TBD> | <TBD> | | <TBD> |

#### *TGaz Editor: add the following paragraph after “The ToA Error field is TBD.” in 9.6.7.37 Location Measurement Report frame format of 11az D0.4:*

The CFO parameter in ISTA-to-RSTA LMR indicates the clock rate difference between ISTA and RSTA in units of TBD. The length of the CFO parameter is TBD.

#### *TGaz Editor: add the following paragraph after “Figure 11-xx HEz Measurement Exchange Sequence with Bidirectional LMR Feedback for n ISTA” in 11.22.6.4.2.4 HEz Measurement Reporting Part of 11az D0.4:*

If ISTA-to-RSTA LMR reporting was negotiated, then the ISTA shall include a CFO parameter in the ISTA-to-RSTA LMR (See 9.6.7.37 Location Measurement Report frame format). The ISTA shall estimate the CFO parameter based on the PPDU carrying the HEz uplink sounding trigger frame that solicits the UL NDP from the ISTA. The RSTA may account for clock rate differences between ISTA and RSTA based on the CFO parameter included in the received ISTA-to-RSTA LMR. The mechanism by which t4 and t1 are adjusted by RSTA is implementation specific. The CFO parameter refers to the t1 and t4 indicated in the same ISTA-to-RSTA LMR instance.

#### *TGaz Editor: add the following paragraph before “Figure 11-xx VHTz Measurement Exchange Sequence with Bidirectional LMR Feedbacks” in 11.22.6.4.4.3 Measurement Report of 11az D0.4:*

If ISTA-to-RSTA LMR reporting was negotiated, then the ISTA shall include a CFO parameter in the ISTA-to-RSTA LMR (See 9.6.7.37 Location Measurement Report frame format). The ISTA shall estimate the CFO parameter based on the DL NDP from the RSTA. The RSTA may account for clock rate differences between ISTA and RSTA based on the CFO parameter included in the received ISTA-to-RSTA LMR. The mechanism by which t4 and t1 are adjusted by RSTA is implementation specific. The CFO parameter refers to the t1 and t4 indicated in the same ISTA-to-RSTA LMR instance.