IEEE P802.11
Wireless LANs

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| Comment Resolution LB249 – Additional PHY CIDs |
| Date: 2020-08-06 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Christian Berger | NXP | 350 Holger Way, San Jose, CA |  | Christian.berger@nxp.com |
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Abstract

This submission proposes a resolution to CIDs 4013, 4015, 4016, 4017

Revisions:

1. Removed CIDs 4014, 4018

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGaz Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGaz Editor: Editing instructions preceded by “TGaz Editor” are instructions to the TGaz editor to modify existing material in the TGaz draft. As a result of adopting the changes, the TGaz editor will execute the instructions rather than copy them to the TGaz Draft.***

**The text preceded by “Discussion” is not part of the adopted changes.**

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| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| **4013** | 197.00 | 27 | The 11az draft is making many changes to the PHY section of 11ax. Create a new section which describes the 11az PHY and do not modify Section 28. This will prevent the industry from 11ax interoperabiilty problems. | Create a new section which describes the 11az PHY and do not modify Section 28. | **Reject**The changes to the 11ax PHY are too small to constitue a full independent section. |
| **4015** | 202.00 | 27.3.17a | There doesn't appear to be any PHY signaling that allows the PHY to distinguish HE Ranging NDPs from HE NDPs. This will increase client power consumption. | Add a PHY indication to distinguish HE Ranging NDP from HE NDP. | **Reject**The indication is given in the preceding Ranging NDP-A. |
| **4016** | 203.00 | 27.3.17a | Improve the likelihood that this amendment will actually be adopted in the market. FTM is currently not a very widely adopted technology. Improve the chances that 11az will actually be implemented. Reduce modes. | Either eliminate Repetition (no LTF\_REP) or only have LTF\_REP=2. Eliminate the variable from Table 28-2a. | **Reject**The use of repetition has two applications, PHY security and improved SNR, especially for 1x1 devices (whose NDP would otherwise have only 1 LTF symbol). In other cases, especially high Tx diversity (4x4, 8x8) this might cause large overhead. Also in the PHY security case, it is not yet clear if LTF\_REP=2 is sufficient or a larger number might be required, especially for lower bandwidths (20, 40 MHz). |
| **4017** | 203.23 | 27.3.17a | Improve the likelihood that this amendment will actually be adopted in the market. FTM is currently not a very widely adopted technology. Improve the chances that 11az will actually be implemented. Reduce modes. | Eliminate LTF\_OFFSET | **Reject**This parameters is needed such that a receiver does not need to parse all STA Info fields. |