IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGax  May 2017 Daejeon PHY Ad Hoc Meeting Minutes | | | | |
| Date: 2017-05-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Jianhan Liu | Mediatek |  |  | jianhan.liu@mediatek.com |

Abstract

TGax meeting minutes for the IEEE 802.11 Daejeon PHY ad hoc session, May, 2017.

**Monday, May 8th, 2017, PM 2 Session**

1. **Meeting called to order by Bo Sun (ZTE)** 
   1. The agenda is contained in 11-17/0464r0 which is on the server.

**1.1**

**4-Changes to D1.0 Clause 28.3.6, Xiaogang Chen (Intel)**

It is the updates of comment resolutions presented in Ad Hoc meeting in Seoul.

No discussion.

SP: do you agree resolutions in doc 232r4?

No objection

**1.2**

**11-17-0233-05-00ax-cr-4905, Xiaogang Chen (Intel)**

No discussion.

SP: do you agree resolution for CID 4905 in doc 233r5?

No objection

**1.3**

**11-17-0736-00-00ax-he-link-adaptation, Xiaogang Chen (Intel)**

Discussions:

Youhan: When DCM is 1, what it means when combined with MCS?

Xiaogang: It is same as DCM in HE-SIGA.

SP: do you agree resolution for CID 9619 in doc 763r0?

No objection

**1.4**

**11-17-0288-02-00ax-crs-on-he-sig-b-28-3-10-8-4-5-part-1, Yujin Noh (Newracom)**

No discussion.

SP: do you agree resolutions in doc 288r2?

No objection

**1.5**

**11-17-0289-02-00ax-crs-on-he-sig-b-terminologies-on-28-3-10-8-1-3, Yujin Noh (Newracom)**

Discussions:

Jinsoo: the figure of preamble puncture is different from this figure.

SP: do you agree resolutions for CID 10060 and 10061 in doc 289r2?

No objection

**1.6**

**11-17-0290-05-00ax-crs-on-tx-specification, Yujin Noh (Newracom)**

No discussion.

SP: do you agree resolutions in doc 290r5?

No objection

**1.7**

**11-17-0465-06-00ax-cr-on-txtime-and-psdu-length, Youhan Kim (Qualcomm)**

Sungeun: There a few editorial changes.

Youhan: I will update.

Youhan: I will come back again after the update.

**1.8**

**11-17-0698-02-00ax-crs-on-miscellaneous-phy-cids, Bin Tian (Qualcomm)**

No discussion.

SP: do you agree resolutions in doc 698r2?

No objection

**1.9**

**11-17-0694-02-00ax-crs-for-packet-extension-in-28-3-12, Sungeun Lee (Cypress)**

No discussion.

SP: do you agree resolutions in doc 694r2?

No objection

**Tuesday, May 8th, 2017, Eve Session**

**Meeting called to order by Bo Sun (ZTE)**

**1.10**

**11-17-0648-00-00ax-cr-on-he-sig-a, Ron Porat (Broadcom)**

Bo: You need to change “accepted modified” to “revise” and give the instructions to the 11ax editor.

Youhan: it should be B instead of C.

Youhan: we should add one capability bit for 4x-LTF and 0.8us GI for HE\_EXT\_SU.

Ron: I will modify the doc and present it again.

**1.11**

**11-17-0781-00-00ax-crs-on-28-3-3-8-3, Yujin Noh (Newracom)**

Bo: Is the user block filed is defined?

Yujin: Yes.

SP: do you agree resolutions in doc 781r0?

No objection

**1.12**

**11-17-0714-02-00ax-csd-update-for-28-3-6, Dongguk Lim (LGE)**

Jianhan: We should not apply CSD to pre-HE portion, can you allow me to double check.

Dongguk: OK, I will come back again.

**1.13**

**11-17-0769-00-00ax-crs-for-20mhz-only-sta-part-3, Sungeun Lee (Cypress)**

SP: do you agree resolutions in doc 769r0?

No objection

**1.14**

**11-17-0774-00-00ax-cid8975-resolution, Hongyuan Zhang (Marvell)**

Sigurd: We should allow more HE-LTFs for MU.

Hongyuan: I would like to keep it same as 11ac.

SP: do you agree resolutions in doc 774r0?

YES/No/Abs: 8/2/3

**Wednesday, May 9th, 2017, PM1 Session**

**Meeting called to order by Bo Sun (ZTE)**

**1.15**

**11-17-0465-08-00ax-cr-on-txtime-and-psdu-length, Youhan Kim (Qualcomm)**

SP: do you agree resolutions in doc 465r8?

No objection

**1.16**

**11-17-0813-00-00ax-cr-on-ltf-gi-for-he-er-su-ppdu, Youhan Kim (Qualcomm)**

SP: do you agree resolutions in doc 465r1?

No objection

**1.17**

**11-17-0648-02-00ax-cr-on-he-sig-a, Ron Porat (Broadcom)**

Bo: it is hard to input the resolution to the database. The resolution needs to have instructions to the editor. How about you make the change and come back in PM2?

Bin: for preamble puncture, even you know the interferences from internal; you need transmission based on 20MHz CCA.

**1.18**

**11-17-0650-01-00ax-lb-225-cluase-18-2-comment-resolution, Osama Aboul-Magd (Huawei)**

Bo: I will correct the typos.

SP: do you agree resolutions in doc 650r1?

No objection

**1.19**

**11-17-0714-04-00ax-csd-update-for-28-3-6, Dongguk Lim (LGE)**

SP: do you agree resolutions in doc 714r4?

No objection

**Wednesday, May 9th, 2017, PM2 Session**

**Meeting called to order by Bo Sun (ZTE)**

**1.20**

**11-17-0648-03-00ax-cr-on-he-sig-a, Ron Porat (Broadcom)**

**Discussions:** the CR format may not be preferred.

SP on all the 31 CIDs

no objection

**1.21**

**11-17-0044-04-00ax-ndp-feedback-report-design, Ron Porat (Broadcom)**

**Discussions:**

   Pilots not needed?—Solely based on the tone allocation table, no pilot tones inserted in HELTFs.

  PE needed?—probably yes, this is still NDP

  HESTF should be 8us

       HELTF being 16us?—prefer to keep as one mode, 4xLTF+3.2us GI is the most reliable

**1.22**

**11-17-0734-01-00ax-doppler-discussions, Hongyuan Zhang (Marvell)**

**Discussions:**

  Simulated packet length?—64Kb, various length for different MCSs

                 M options?—open for both single option, or multiple options

                 How about shorter the PPDUs?—this equivalent to midamble adding whole preamble and IFS, therefore much more inefficient.

**1.23**

**11-17-0773-02-00ax-thoughts-on-doppler-design-in-802-11ax, Lochan (Qualcomm)**

**Discussions:**

                 Do you have equalization adaptation—per midamble processing, same as preamble, not averaging

                 How do you interpolate midambles in the sims—per midamble.

                 What the numbers on periodicity?—open for discussions

                 Is 120 symbols per midamble the intention?—No

                 Packet size?—120 for BPSK, similar duration for higher MCSs

**SP:** **Do you agree that Doppler procedure in 802.11ax is based on mid-ambles?**

**Y: 14 N: 0 Need more info:** **8**

**SP:** **If mid-amble is adopted, the coding shall be continuous across mid-ambles?**

**Y: 13 N: 0 Need more info:** **5**