IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGax  September 2017 Hawaii PHY Ad Hoc Meeting Minutes | | | | |
| Date: 2017-09-014 | | | | |
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Abstract

TGax meeting minutes for the IEEE 802.11 Hawaii PHY ad hoc session, September 2017.

**Monday, September 11th, 2017, PM 2 Session**

1. **Meeting called to order by Bo Sun (ZTE)** 
   1. The agenda is contained in 11-17/1434r0 which is on the server.
   2. Bo updates the comments resolution status.

**1.1**

**0- CRs for 20 MHz-only STA – Part 4, Sungeun Lee (Cypress Semiconductor)**

The submission provides resolution to comment related to a 20 MHz-only non-AP HE STA capability

No discussion.

SP: do you agree resolutions in doc 1361r0?

No objection

**1.2**

**11-17-1296r0- Comment Resolutions on Miscellaneous Comments, Lochan Verma (Qualcomm)**

Komi: where in the spec. says the comments resolution you gave?

Lochan: The language is what I re-phrase the spec.

Sungeun: Is this combined with Doppler bit capability?

Lochan: They are independent.

SP: do you agree resolutions in doc 1296r0?

No objection

**1.3**

**11-17-1306r1- CRs on Clause 28.3.3.2, Xiangang Chen (Intel)**

Jinsoo: Could you add 26 RU label for 80MHz channelization?

Xiaogang: OK. I will add it and come back.

**Monday, September 11th, 2017, EVE Session**

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

**1.4**

**11-17-1001r3- Comment Resolutions on Clause 28.2.2 (TXVECTOR and RXVECTOR parameters) Part 1, Bo Sun (ZTE)**

SP: do you agree resolutions in doc 1001r4?

No objection

**1.5**

**11-17-1381r2- DCM in HE TB PPDUs, Hongyuan Zhang (Marvell)**

Youhan: you should remove the number of spatial stream to 0.

Hongyuan: yes. I will remove this and upload r3.

SP: do you agree resolutions in doc **1381r3**?

No objection

**1.6**

**11-17-1306r2- CRs on Clause 28.3.3.2, Xiangang Chen (Intel)**

Add the 26-RU based on Jinsoo’s comments.

SP: do you agree resolutions in doc **1306r2**?

No objection

**Tuesday, September 12th, 2017, AM2 Session**

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

**1.7**

11-17-1374r0- On Amplitude Drift Compensation, Jianhan Liu (Mediatek)

11-17-1375r0- Text Changes on Transmitter modulation accuracy (EVM) test, Jianhan Liu (Mediatek)

Bin: Can you change “for BPSK~256QAM to “for all other constellations”?

Jianhan: OK. I will add it and I will upload the r1?

SP: do you agree text changes in doc **1375r1**?

No objection

**1.8**

**11-17-1374r0- Usage of Doppler bit in A-Control subfield, Yujin Noh (Newracom)**

Tianyu: The feedback in A-control field is not promt?

Yujin: I do not think prompt feedback is really necessary.

Jianhan: All short control packets cannot carry A-control field, so adding those Doppler information is basically not useful because the packet who carrying A-control field is long packet and the receiver can find out if there is Doppler.

Yujin: I think we need feedback more information.

Hongyuan: The A-control field cannot be used by BA, which is most useful for re-transmission.

Yujin: I do not think BA is useful.

No strawpoll.

**1.9**

**11-17-1376r0- Usage of Doppler Bit in 11ax, Jianhan Liu (Mediatek)**

Yujin: I want to discuss on your strawpoll.

Jianhan: I will not run the strawpoll. The text is what should vote on.

Sungeun Lee: How the STA decides to set 1 or 0?

Jianhan: The same way as the transmitter to decide insert midamble or not for long packet.

No strawpoll.

**1.10**

**11-17-1357r3- Capability on Doppler Mode, Ross Yu (Huawei)**

No discussion.

No strawpoll.

**1.11**

**11-17-1366r0- Midamble Design Continued, Hongyuan Zhang (Marvell)**

Yujin: Do you have simulation for more symbol cases?

Hongyuan: we do not have.

No strawpoll.

**1.12**

**11-17-1332r0- PHY-CR-28.3.3.4, Junghoon Suh (Huawei)**

No discussion.

SP: do you agree text changes in doc **1332r0**?

No objection

**1.13**

**11-17-1315r0- Resolution to CID8576, Yujin (Newracom)**

No discussion.

**Tuesday, September 12th, 2017, PM1 Session**

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

**1.14 11-17-0995-03-00ax-doppler-comment-resolutions, Hongyuan Zhang (Marvell)**

Sungeun: For HE ER PPDU, only one or two spatial streams are allowed.

Hongyuan: OK. I will change the value 2 and 3 to be reserved.

Sigurd: Could you add the recommendation to the reverse link?

Hongyuan: OK. I will add it.

SP: do you agree text changes in doc **0995r4**?

No objection

**1.15 11-17-1307-01-00ax-changes-to-ndp-feedback-tx-rx-vector, Xiaogang Chen (Intel)**

No discussion.

SP: do you agree text changes in doc **1307r1**?

No objection

**1.16 11-17-1315-02-00ax-resolution-to-cid8576, Yujin Noh (Newracom)**

No discussion.

SP: do you agree text changes in doc **1315r2**?

No objection

**1.17 11-17-1315-02-00ax-resolution-to-cid8576, Yujin Noh (Newracom)**

Lochan: there is a typo for word “connectors”.

Yujin: OK. I will correct it and change to r3.

SP: do you agree text changes in doc **1315r3**?

No objection

**1.18 11-17-1462-00-00ax-resolution-to-cid7548, Yujin Noh (Newracom)**

No discussion.

SP: do you agree text changes in doc **7548r0**?

No objection

**1.19 11-17-1472-00-00ax-11ax-comment-resolution-for-cid-7859, Yan Zhang (Marvell)**

No discussion.

SP: do you agree text changes in doc **1472r0**?

No objection

**1.20 11-17-1472-00-00ax-11ax-comment-resolution-for-cid-7859, Yan Zhang (Marvell)**

Sungeun: Can you add 20MHz to the title of the figure?.

Yan: OK.

SP: do you agree text changes in doc **1472r1**?

No objection

**1.21 11-17-0532-02-00ax-lb225-cr-phy-miscellaneous-part1, Yongho Seok (Mediatek)**

No discussion.

SP: do you agree text changes in doc **0532r2**?

No objection

**1.22 11-17-1485-00-00ax-lb225-cid9735, Yongho Seok (Mediatek)**

No discussion.

SP: do you agree text changes in doc **1485r0**?

No objection

**1.23 11-17-1383-03-00ax-proposed-change-to-resolution-to-cid-9551, Yasuhiko Inoue (NTT)**

Bo: You had better highlight the changed text.

Yasu: OK. I will do it and upload R4.

SP: do you agree text changes in doc **1383r4**?

No objection

**Wednesday, September 13th, 2017, PM1 Session**

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

**1.24 11-17-1001-03-00ax-crs-on-28-2-2-txvector-and-rxvector-part-1, Bo Sun (ZTE)**

SP: do you agree text changes in doc **1001r4**?

No objection

**1.25 11-17-1454-00-00ax-phy-cr-cid-084, Bo Sun (ZTE)**

Bo: I will correct a typo and upload r1.

SP: do you agree text changes in doc **1454r1**?

No objection

**1.26 11-17-1468-00-00ax-cr-for-cid-9463-on-beamforming-formulate, Sungeun Lee (Cypress)**

SP: do you agree text changes in doc **1468r0**?

No objection

**1.27 11-17-1327-00-00ax-interleaver-for-he-siga-and-he-sigb, Dongguk Lim (LGE)**

SP: do you agree text changes in doc **1327r0**?

No objection

**1.28 11-17-1380-00-00ax-he-sigb-spatial-configuration-field, Hongyuan Zhang (Marvell)**

SP: do you agree text changes in doc **1380r0**?

No objection

**1.29 11-17-1449-00-00ax-proposed-changes-for-hestf-80-80mhz-sequence, Yan Zhang (Marvell)**

SP: do you agree text changes in doc **1449r0**?

No objection

**1.30 11-17-1350-00-00ax-on-tx-evm, Ron Porat (Broadcom)**

Sigurd: We have EVM values in the spec, and this note will cause confusion on the EVM tests.

Ron: The test will be no beamforming case and EVM values still apply for non-beamforming case.

Xiaogang: you can lower MCS to get large range.

Ron: For low MCS, you can reduce PA back off further.

Bin: Can the TX violate the spectrum mask?

Ron: No. we can add that.

Bin: We put the constraints for the spec. for many purposes. We cannot just for one virtue but lose many other virtues.

Ron: we believe that if we allow this, we can improve up to 5dB.

Bin: This is a big change. We need more data to make a decision and to think about how to avoid abusing of it.

Ron: If we bring data, will you consider accepting it?

Sigurd: Does right now there is anything disallowing you to do what you want?

Ron: No.

Strawpoll are informative, not going to a motion.

SP: 25 yes, 26 no, 8 abs