IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGax  March 2017 Vancouver PHY Ad Hoc Meeting Minutes | | | | |
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Abstract

TGax meeting minutes for the IEEE 802.11 Vancouver PHY ad hoc session, Mar, 2017.

**Monday, March 13th, 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**

**DCN 11-17--0436-00ax-LB225 Comment resolution for CIDs 7517**

**Jianhan Liu (Mediatek)**

**Discussions:**

Discussions: related CIDs on PSDU\_LENGTH needs to be addressed too, CIDs on 28.4.2 transferred from Yongho to Youhan

SP: do you agree resolution of CID 7517 in doc 436r0?

No objection

**1.2**

**11-17/0044r3 NDP Short Feedback Design, Ron Porat (Broadcom)**

**Discussions:**

Bin: Compared to proposal of last time, it is improved a lot. I will be appreciated if you give some time for us to check the performance.

Hongyuan: We also try to run simulations to confirm the results.

VK: There are too many options. Can you explain why we need so many options?

Ron: The original proposal just has one option. I do mind we limit the modes.

Discussions on SP:

Bin: There are a lot of materials in slide 4-8, could you change the SP?

Ron: I will change the SP.

VK: can you change to “will be limited to one bit”.

Xiaogang: We cannot decide for the MAC for how many bits.

Sigurd: There are too many options in the SP?

Ron: The option B had one mode.

SP: Do you agree that the NDP short feedback report is based on sets of tones as shown in slides 7?

Option A-design may be limited to 1 or 2 bits only, one power mode and one NSS value;

Option B- design will be limited to one mode (as far as we bits, power and NSS value) ;

Option C-Abstain

Option D-No

Results: Option-A/Option-B/Option-c/Option-D: 4/18/22/1

The SP will not be turned into a motion. It is an informative SP.

**1.3**

**11-17/0078r1 RBW of 11ax, Xiaogang Chen (Intel)**

**Discussions:**

Bin: You need also propose the detailed text.

Xiaogang: I will come back with updated doc.

**1.4**

**11-17/0231r2 CR\_clause 28.3.5, Xiaogang Chen (Intel)**

**Discussions:**

CID 8840 will be transferred to Ross.

Bo: This is version 2 and it is not on the server.

Xiaogang: I will upload the version 2.

SP: do you agree resolution of CIDs 9549 and 10204 in **11-17/0231r2**  ?

No objection

**1.5**

**11-17/0234r1 CR\_clause 28.3.19\_28.3.20, Xiaogang Chen (Intel)**

**Discussions:**

Xiasogang: I will come back with updated version.

**Tuesday, March 14th, 2017, AM 2 Session**

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

**11-17-0471-01-00ax-cr-7547, Xiaogang Chen (Intel)**

**Discussions:**

Sigurd: Give more time for people to review.

Xiaogang: This topic has been discussed in Jan. meeting.

Sigurd: you change the VBW from Jan.

Xiaogang: We did not change the VBW.

Z: RBW is 100 KHz, and then each sub-carrier does not have a sample point.

Hongyuan: Can you be more specific for your point?

Z: The changes make everybody easier to meet the spec, but may some corner cases may cause problem.

Bin: 100 KHz RBW is similar to 11ac.25KHz does not have significant effect on flatness requirement.

Sigurd: why just 20MHz? For fairness, I still request to have more time to check with our implementation team.

Bin: CFO errors are not scaled. The CFO error affects more on 20MHz than wider BW.

SP: do you agree resolution of CID 7547 in **11-17/0471r1?**

**Results: Y/N/A: 22/6/13**

**11-17/0234r2 CR\_clause 28.3.19\_28.3.20, Xiaogang Chen (Intel)**

**Discussions:**

Sigurd: How to figure out the extension in the formula?

Xiaogang: I will bring another contribution to explain this.

Youhan: the SignalExtension is defined in the table 19-25.

Sigurd: Can you delete “0 μs when the TXVECTOR parameter NO\_SIG\_EXTN is true and is aSignalExtension”?

Xiaogang: OK.

SP: do you agree resolution of CIDs in **11-17/0234r3?**

No objection

**11-17-0247-02-00ax-cr-he-phy-introduction-part-4, Lochan Verma (Qualcomm)**

**No discussions.**

SP: do you agree resolution of CID 9136 in **11-17/0247r3?**

No objection

**11-17-0261-02-00ax-cr-he-phy-transmit-requirements-he-trig-ppdu-part-1, Lochan Verma (Qualcomm)**

**Discussions:**

Lochan: 8839 is transferred from Xiaogang.

SP: do you agree resolution of CID 8839 in **11-17/0261r2?**

No objection

**11-17-0398-00-00ax-11ax-comment-resolutions-for-he-preamble, Yan Zhang (Marvell)**

**Discussions:**

Sigurd: They are BPSK modulated is redundant.

Yan: It could be also QPSK. Just make it clear.

Hongyuan: we cannot say RL-SIG is unique for HE-PPDU. We may use it in the future PPDU.

Yan will continue her presentation in next PHY AD HOC session.

**Tuesday, March 14th, 2017, PM 2 Session**

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

1. **11-17-0398-00-00ax-11ax-comment-resolutions-for-he-preamble, Yan Zhang (Marvell)**

**No discussions.**

SP: do you agree resolution of CIDs in **11-17/0398r1?**

No objection

1. **11-17-0345-00-00ax-lb225-cr-on-txop-duration-28-2-2, Jeongki Kim (LG)**

Jeongki will come back with version r1.

1. **11-17-0400-02-00ax-crs-for-20mhz-only-sta-part-1, Sungeun Lee (Cypress)**

**Discussions:**

Ron: If a STA of 80MHz device and it reduce to 20MHz, then it follows the rules here, right?

Sungeun: yes. It is 20MHz operation rule.

Jinsoo: Just to make sure the definition of 20MHz only devices.

SP: do you agree resolution of CIDs in **11-17/0400r3?**

No objection

1. **11-17-0345-01-00ax-lb225-cr-on-txop-duration-28-2-2, Jeongki Kim (LG)**

**Discussions:**

Bo: “Unspecified” is clear.

Robert: “Unspecified” is a value in the field.

SP: do you agree resolution of CIDs in **11-17/0345r1?**

No objection

1. **11-17-0404-01-00ax-cr-on-pre-he-preamble-transmission-for-trigger-based-ppdu, Ross Jian Yu (Huawei)**

SP: do you agree resolution of CIDs in **11-17/0404r1?**

No objection

**Wednesday, March 15th, 2017, PM 2 Session**

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

1. **11-17-0414-00-00ax-cr-on-clause-28-3-11-he-phy-data-field, Tianyu Wu (Mediatek)**

**Discussions:**

Bo: For all the revised, in the column, you must give the clear instruction to the 11ax editor.

Tianyu: OK. I will update the doc and come back to run straw poll.

SP: do you agree resolution of CIDs in **11-17/0414r1?**

No objection

1. **11-17-0316-04-00ax-crs-for-clause-28-3-8-and-28-5, Bin Tian (Qualcomm)**

**Discussions:**

Bo: This document has been presented in Ad hoc meeting in San Diego. Do you wan to re-run the straw poll on all CIDs or the CIDs with changes?

Bin: I think re-run straw poll on all CIDs is easier.

SP: do you agree resolution of CIDs in **11-17/0316r4?**

No objection

1. **11-17-0465-05-00ax-cr-on-txtime-and-psdu-length, Bin Tian (Qualcomm)**

**Discussions:**

Sigurd: the reference for T\_PE is not right.

Bin: Do you want to keep this open or resolved the issue in the other CID?

Sigurd: I think we should keep this cid open.

Bin: OK. I will delay the resolution of CID 9490.

Ron: Could you delay the resolution of CID 8566? There are a lot of changes and we want to check the

SP: do you agree resolution of CID 3441 in **11-17/0465r5?**

No objection