IEEE P802.11
Wireless LANs

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| Minutes of 802.11be PHY ad hoc Telephone Conferences, May to July 2021 |
| Date: 2021-05-27 |
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Abstract

This document contains the PHY ad hoc meeting minutes for TGbe teleconferences held on:

* May 27, 2021 (R0)
* June 7, 2021 (R1)

**Thursday May 27th, 2021 10:00 – 12:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 10:00 AM ET.
2. The Chair follows the agenda in 11-21/785r9
3. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. Nobody speaks up.
4. The Chair goes through the Copyright policy.
5. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Agenda

**Technical Submissions: PDTs**

* + [893r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0893-00-00be-pdt-correction-to-trigger-frame-ru-allocation-table.docx) PDT Correction to Trigger Frame RU Allocation Table Steve Shellhammer

**Technical Submissions:**

* + [368r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0368-03-00be-diversity-enhancement-for-dup-mode.pptx) Diversity Enhancement for DUP mode Ali Tugberk Dogukan

**Submissions**

**893r0 PDT Correction to Trigger Frame RU Allocation Table (Steve Shellhammer)**

MRU996+484+242 should be limited to 160 MHz PPDUs. It’s currently also allowed for 320 MHz, which is not consistent with the agreements on MRU996+484+242.

SP1:

Do you agree to accept the proposed text modifications 11-21/893r1for the next draft 802.11be?

No objection

**368r3 Diversity Enhancement for DUP mode (Ali Tugberk Dogukan)**

New Proposed Method for Enhancing Diversity. Error performance is evaluated through simulations, showing 0.1-0.25 dB gain depending on channel model and bandwidth. PAPR distribution is not affected.

Discussion

Q: How many Tx/Rx antennas are used?

A: 1 Tx, this is SISO.

C: increasing #antennas might show less gain

Q: Would gain be the same with real impairments? May be worth checking.

A: thinks so. We can include it.

SP deferred

**Adjourn**

Meeting is adjourned at 10:30 ET.

**Monday June 7th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Tianyu Wu, Apple) calls the meeting to order at 10:00 AM ET.
2. The Chair follows the agenda in 11-21/785r14
3. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. Nobody speaks up.
4. The Chair goes through the Copyright policy.
5. The Chair reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Announcements:
7. Agenda
* Technical Submissions**: PDTs**
	+ [783r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0783-00-00be-reference-correction-in-36-3-12-2-2.docx) Reference correction in 36-3-12-2-2 Genadiy Tsodik
	+ [916r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0916-00-00be-pdt-additional-corrections-to-the-trigger-frame-ru-allocation-table.docx) PDT Add.l. Corrections to the TF RU Allocation Table Steve Shellhammer
	+ [907r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0907-01-00be-pdt-note-in-trigger-frame-ru-allocation-table.docx) PDT NOTE in Trigger Frame RU Allocation Table Mengshi Hu
	+ [886r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0886-00-00be-proposed-changes-to-sounding-fb.docx) Proposed changes to sounding FB Xiaogang Chen
* Technical Submissions:
	+ [618r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0618-03-00be-evm-and-sfo-sto.pptx) EVM and SFO/STO Brian Hart
	+ [247r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0247-03-00be-bandwidthindicationinrtsctsin320mhzppduandpuncturedpreambles.pptx) BW Ind. In Rts/Cts In 320 MHz Ppdu & Punc. Preambles Brian Hart
	+ [923r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0923-00-00be-11be-spectral-mask-floor.pptx) 11be spectral mask floor Xiaogang Chen

**PDTs**

[**783r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-0783-00-00be-reference-correction-in-36-3-12-2-2.docx) **Reference correction in 36-3-12-2-2 (Genadiy Tsodik)**

36.3.12.2.2 contains a wrong reference. The correct reference is to a VHT section. Text modification is proposed.

Discussion

C: agree with change, but already fixed in D1.0.

No action needed.

[**916r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-0916-00-00be-pdt-additional-corrections-to-the-trigger-frame-ru-allocation-table.docx) **PDT Add.l. Corrections to the TF RU Allocation Table (Steve Shellhammer)**

Two separate issues with the RU allocation table. A resolution is proposed for each issue.

Small updates needed after discussion. R1 will be reviewed later.

SP2: Do you agree to accept the proposed text modifications in 11-21/916r1 for the next draft of 802.11be?

No objection

[**907r1**](https://mentor.ieee.org/802.11/dcn/21/11-21-0907-01-00be-pdt-note-in-trigger-frame-ru-allocation-table.docx) **PDT NOTE in Trigger Frame RU Allocation Table (Mengshi Hu)**

Not all MRU indices are defined for all BWs. A note in Table 9-29j1 is proposed to clarify this.

SP1: Do you agree to accept the proposed text modifications in 11-21/907r1 for the next draft of 802.11be?

No objection

[**886r1**](https://mentor.ieee.org/802.11/dcn/21/11-21-0886-00-00be-proposed-changes-to-sounding-fb.docx) **Proposed changes to sounding FB (Xiaogang Chen)**

Two issues:

* Partial DL MU-MIMO is optional; however Partial BW MU feedback is mandatory. Changes are proposed to make this consistent, by making Partial BW MU feedback conditional mandatory.
* Definition for full BW and partial BW is not fully clear. Better definitions are proposed.

Discussion: Further clarification needed on meaning of “available bandwidth” and the definitions of full and partial BW.

Author will produce new version and continue discussion offline.

SP deferred.

**Technical Submissions**

[**247r3**](https://mentor.ieee.org/802.11/dcn/21/11-21-0247-03-00be-bandwidthindicationinrtsctsin320mhzppduandpuncturedpreambles.pptx) **BW Ind. In Rts/Cts In 320 MHz Ppdu & Punc. Preambles (Brian Hart)**

Indication for ≥320 MHz non-HT duplicate PPDUs in 6 GHz now uses bit 7 in the Service field

No protection was defined for that bit (no Parity, CRC, etc).

The submission discusses the anticipated needs for the number of bits to indicate the various BW modes and looks at different ways of communicating and providing FEC protection for these bits.

Discussion of the proposal will continue next call.

**Adjourn**

Meeting is adjourned at 21:00 ET.