IEEE P802.11  
Wireless LANs

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| Minutes 802.11 be PHY ad hoc – March Plenary meetings | | | | |
| Date: 2021-03-11 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Tianyu Wu | Apple |  |  | tianyu@apple.com |

Abstract

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

* Mar 8, 2021
* Mar 11, 2021

**Monday Mar 8th, 2021 19:00 – 21:00 ET**

**Introduction**

1. The Chair (Sigurd Schelstraete, Quantenna/ON Semiconductor) calls the meeting to order at 19:00 ET.
2. The Chair follows the agenda in 11-21/205r2.
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 reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple) or the Chair himself if unable to record attendance via IMAT system.
5. Discussions on the agenda.

Technical Submissions: **Run SPs from Previous Topics**

* + [323r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0323-01-00be-comment-resolutions-for-clause-36-3-10-mathematical-description-of-signals.docx) CR for Clause 36.3.19 Mathematical description of signals Yan Zhang
  + [324r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0324-01-00be-comment-resolutions-for-clause-36-3-12-3-coding.docx) CR for Clause 36.3.12.3 Coding Yan Zhang
  + [334r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0334-02-00be-cr-for-clause-36-3-3.docx) CR for clause 36.3.3 Junghoon Suh [7 CIDs]
  + [292r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0292-02-00be-cr-for-cid-1081-2255-and-2990.docx) CR for CID 1081,2255 and 2990 Dongguk Lim [3 CIDs]

Technical Submissions: **Proposed Draft Text (PDTs) for fixings TBDs**

* + [325r6](https://mentor.ieee.org/802.11/dcn/21/11-21-0325-05-00be-u-sig-comment-resolution-part-1.docx) U-SIG Comment Resolution Part 1 Sameer Vermani [26 CIDs]
  + [353r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0353-01-00be-u-sig-comment-resolution-part-2.docx) U-SIG Comment Resolution Part 2 Alice Chen [15 CIDs]
  + [338r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0338-00-00be-eht-sig-cr-on-p802-11be-d0-3-part5.doc) EHT-SIG CR on P802.11be D0.3-part5 Bo Gong [5 CIDs]
  + [350r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0350-00-00be-eht-sig-cr-d03-annex-z.doc) EHT-SIG-CR-d03-annex z Ross Jian Yu [2 CIDs]
  + [371r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0371-00-00be-cr-on-ppdu-encoding.docx) CR on PPDU Encoding Youhan Kim [6 CIDs]
  + [384r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0384-00-00be-comment-resolutions-for-clause-36-3-13-packet-extension.docx) CRs for clause 36.3.13 Packet extension Yan Zhang [1 CID]
  + [360r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0360-00-00be-crs-on-cids-related-to-clause-36-1-1.docx) CRs on CIDs related to Clause 36.1.1 Kanke Wu [26 CIDs]
  + [331r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0331-00-00be-d03-cr-on-eht-phy-introduction.docx) D03 CR on EHT PHY Introduction Bin Tian [27 CIDs]
  + [372r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0372-01-00be-pdt-eht-ppe-thresholds-field.docx) PDT EHT PPE Thresholds field Mengshi Hu
  + [402r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0402-00-00be-pdt-nominal-packet-padding-values-selection-rules.docx) PDT Nominal packet padding values selection rules Mengshi Hu
  + [354r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0354-00-00be-u-sig-comment-resolution-part-3.docx) U-SIG CR part 3 Alice Chen
  + [310r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0310-00-00be-cr-for-36-3-2-4-and-36-3-12-9-pilot-subcarriers.docx) CR for 36.3.2.4 and 36.3.12.9 pilot subcarriers Jinyoung Chun

Technical Submissions:

* + [392r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0392-00-00be-pe-for-4k-qam.pptx) PE for 4K QAM Ron Porat

**Pending Straw Polls**

1. **SP for 323r1 – Yan Zhang (NXP)**

SP#1: **Do you agree to the resolution of the following CIDs as proposed in 11-21/0323r1:**

* + 1259, 1330, 1331, 1332, 1335, 1336, 1337, 1339, 1340, 1341, 1559, 1560, 1968, 2611, 2612, 2613, 2615, 3044, 3170, 3171

No Objection

1. **SP for 324r1 – Yan Zhang (NXP)**

SP#3: **Do you agree to the resolution of the following CIDs as proposed in 11-21/0324r2:**

* + 1142, 2642, 2648, 2649, 2903, 2950, 3115, 3116

No Objection

1. **SP for 334r2 – Junghoon Suh (Huawei)**

**Discussions:**

C: Discussions on MU-MIMO support. “In any bandwidth” is not clear.

A: Change to “in a bandwidth”

C: CID 1329 should keep open since the CR to 1329 is not complete.

C: 2788 and 3279 need more discussion on UL MU-MIMO capability.   
A: Will update and upload r3.

SP#2: **Do you agree to the resolution of the following CIDs as proposed in 11-21/0334r3:**

* + 1307, 1308, ~~1329~~, 1554, ~~2788~~, 3155, and ~~3279~~
  + Note: resolution for CID 1329 is incomplete
  + Note: 2788, 3279 need discussion on UL MU-MIMO capability

No Objection

1. **SP for 292r2 – Dongguk Lim (LG)**

SP#4: **Do you agree to the resolution of the following CIDs as proposed in 11-21/0292r2:**

* + 1081, 2255 and 2990

No Objection

**PDT and CR contributions**

1. **325r6 U-SIG Comment Resolution Part 1** **– Sameer Vermani (Qualcomm)**

**Discussions:**

C: Can you defer longer than duration of PPDU length?

A: It’s MAC decision. Slightly revised the text.

C: Change “can resume” to “is recommended to resume.”

A: There could be more other facts impact the behavior.

A: It’s clearer to say “it shall ignore that bit.”

C: This also not a constructive text.

C: Reserved fields and subfields defined in this clause are set to 0 upon transmission and are ignored upon reception. "Ignore" seems appropriate for us as well.

**Adjourn**

The meeting is adjourned at 21:00 PM ET

**Thursday Mar 11th, 2021 09:00 – 11:00 ET**

**Introduction**

1. The Chair (Sigurd Schelstraete, Quantenna/ON Semiconductor) calls the meeting to order at 9:00am ET.
2. The Chair follows the agenda in 11-21/205r6.
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 reminds everyone to report their attendance by using IMAT system and by sending an e-mail to the Co-chair, Tianyu Wu (Apple) or the Chair himself if unable to record attendance via IMAT system.
5. Discussions on the agenda.

Technical Submissions: **Pending SPs**

* + [325r2](https://mentor.ieee.org/802.11/dcn/21/11-21-0325-06-00be-u-sig-comment-resolution-part-1.docx) U-SIG Comment Resolution Part 1 Sameer Vermani [22 CIDs-SP]
  + [344r3](https://mentor.ieee.org/802.11/dcn/21/11-21-0344-03-00be-compressed-supported-mcs-and-nss-set-field.pptx) Compressed Supported MCS and NSS Set Field Steve Shellhammer
  + [372r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0372-01-00be-pdt-eht-ppe-thresholds-field.docx) PDT- EHT PPE Thresholds field Mengshi Hu
  + [402r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0402-00-00be-pdt-nominal-packet-padding-values-selection-rules.docx) PDT- Nominal Packet Padding Values Selection Rules Mengshi Hu

Technical Submissions: **Proposed Draft Text (PDTs) for fixings TBDs**

* + [353r1](https://mentor.ieee.org/802.11/dcn/21/11-21-0353-01-00be-u-sig-comment-resolution-part-2.docx) U-SIG Comment Resolution Part 2 Alice Chen [15 CIDs]
  + [338r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0338-00-00be-eht-sig-cr-on-p802-11be-d0-3-part5.doc) EHT-SIG CR on P802.11be D0.3-part5 Bo Gong [ 5 CIDs]
  + [350r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0350-00-00be-eht-sig-cr-d03-annex-z.doc) EHT-SIG-CR-d03-annex z Ross Jian Yu [ 2 CIDs]
  + [371r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0371-00-00be-cr-on-ppdu-encoding.docx) CR on PPDU Encoding Youhan Kim [6 CIDs]
  + [354r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0354-00-00be-u-sig-comment-resolution-part-3.docx) U-SIG Comment Resolution Part 3 Alice Chen [59 CIDs]
  + [384r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0384-00-00be-comment-resolutions-for-clause-36-3-13-packet-extension.docx) CRs for clause 36.3.13 Packet extension Yan Zhang [1 CIDs]
  + [360r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0360-00-00be-crs-on-cids-related-to-clause-36-1-1.docx) CRs on CIDs related to Clause 36.1.1 Kanke Wu [26 CIDs]

**Pending Straw Polls**

1. **325r7 U-SIG Comment Resolution Part 1** **– Sameer Vermani (Qualcomm)**

SP#1: **Do you agree to the resolution to the following CIDs as proposed in 11-21/325r7?**

* + CIDs 1349, 1350, 1351, 1353, 1354, 1355, 1356, 1360, 1561, 1612, 1949, 1969, 2175, 2256, 2704, 2705, 2724, 2728, 2729, 2730, 2791, 2792, 2794, 2796, 2800, 3086, 3172, 3173, 3286

No Objection

1. **344r3 Compressed Supported MCS and NSS Set Field – Steve Shellhammer (Qualcomm)**

SP#2: SP1 from 344r3

* **For the Supported MCS and Nss Set field, do you agree to signal the maximum number of spatial streams supported for a given MCS set, using the table below?**
  + **Note: This can be extended to support up to 16 spatial streams in R2** ![Table

    Description automatically generated]()

Yes/No/Abs: 53/0/13

SP#3: SP2 from 344r3

* **Which Option do you prefer for handling the 20 MHz-Only STAs?**
* **Option #1**
  + **Separate Field for 20 MHz-Only STAs**



* **Option #2**
  + **20 MHz-Only incorporated into (BW 80 MHz)**



Opt1/Opt2/Abs: 41/7/18

SP#4: SP3a from 344r3

* **Do you support the following Supported MCS and Nss Set Field and the EHT-MCS Map Subfield format?**







Yes/No/Abs: 42/0/15

SP#5: SP4 from 344r3

* **Do you support the Basic EHT-MCS And MCS Set Field format show below?**



Yes/No/Abs: 42/1/12

1. **309r2 PDT: Initial text proposal for B.4.3 and B.4.36a.2 – Sigurd Schelstraete (On Semiconductor)**

SP#6: **Do you agree to add the proposed text in 11-21/309r2 in D0.4 of the 11be draft?**

No Objection

**PDT and CR contributions**

1. **372r1 PDT- EHT PPE Thresholds field** **– Mengshi Hu (Huawei)**

**Discussions:**

C: What if I don’t need any PE? How to signal?

A: Set PPE threshold field present to 0 and use the 2 bit signaling method.

C: Can you clarify that point in the PDT?

A: Yes.

C: Request to defer the SP for further check.

~~SP deferred.~~

SP#8: **Do you agree to add the proposed text in 11-21/372r1 in D0.4 of the 11be draft?**

No Objection

1. **402r2 PDT- Nominal Packet Padding Value selection rules** **– Mengshi Hu (Huawei)**

**Discussions:**

C: The question on 372 is addressed in 402. SP for 372 can go.

SP#9: **Do you agree to add the proposed text in 11-21/402r3 in D0.4 of the 11be draft?**

No Objection

1. **353r2 U-SIG comment resolution Part 2** **– Alice Chen (Qualcomm)**

**Discussions:**

C: Request to remove CID 1372 and 1373.

C: The equation on page 8, change 21 to +/-21.

SP#7: **Do you agree to the resolution to the following CIDs as proposed in 11-21/353r3?**

* + CIDs 1370, 1371, ~~1372, 1373,~~ 2179, 2635, 2636, 2638, 2804, 2805, 3105, 3106, 3183, 3292, 3407
  + Note: 1372, 1373 need further discussion

No Objection

1. **338r0 EHT-SIG CR on P802.11be D0.3** **– Bo Gong (Huawei)**

**Discussions:**

C: You mentioned 240MHz subband. There are no 240BW.

A: We are just saying 2x996+484 is within 240MHz. Not to introduce new BW.

SP#10: **Do you agree to the resolution to the following CIDs as proposed in 11-21/338r0?**

* + CIDs 1400, 2811, 2934, 3193, and 3005

No Objection

1. **350r0 Annex Z EHT-SIG examples** **– Ross Jian Yu (Huawei)**

**Discussions:**

C: For the last example of non-OFDMA, is it just one content channel? Comment to delete content channel1 and channel 2 are duplicated.

SP will run in next call.

**Adjourn**

The meeting is adjourned at 11:00AM ET