IEEE P802.11
Wireless LANs

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| Minutes 802.11 be PHY ad hoc – July Plenary meetings  |
| Date: 2021-07-15 |
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Abstract

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

* July 12, 2021
* July 15, 2021

**Monday July 12th, 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 11-21/0924r3.
3. Reminder for registration for the plenary meeting.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. Nobody speaks up.
5. 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.
6. Discussions on the agenda.

CC36 CR Submissions:

* + [1052r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1052-00-00be-cc36-cr-for-36-3-12-9-eht-stf.docx) CC36 CR for 36.3.12.9 EHT-STF Eunsung Park
	+ [1053r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1053-00-00be-cc36-cr-for-36-3-2-6-ru-and-mru-restrictions-for-20-mhz-operation.docx) CC36 CR for 36.3.2.6 RU and MRU restrictions for 20 MHz operation Eunsung Park
	+ [1054r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1054-00-00be-cc36-cr-for-cid-4971-to-4974.docx) CC36 CR for CID 4971 to 4974 Eunsung Park
	+ [1127r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1127-00-00be-cc36-cr-on-ppdu-encoding-process.docx) CC36 CR on PPDU Encoding Process Youhan Kim
	+ [1131r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1131-00-00be-cc36-plme.docx) CC36 PLME Youhan Kim

Technical Submissions:

* + [247r4](https://mentor.ieee.org/802.11/dcn/21/11-21-0247-04-00be-bandwidthindicationinrtsctsin320mhzppduandpuncturedpreambles.pptx) BW Indication In Rts/Cts In 320 MHz Ppdu And Punctured Preambles Brian Hart

**CR contributions**

1. **1052r0 CC36 CR for 36.3.12.9 EHT-STF** **– Eunsung Park (LGE)**

**Discussions:**

C: Some editorial comments.

A: Accepted and update to r1.

SP#1: Do you agree to the comment resolution as proposed in 11-21/1052r1 for the following CIDs?

* CID 8025

 No objection to the SP.

1. **1053r0 CC36 CR for 36.3.2.6 RU and MRU restrictions for 20 MHz operation – Eunsung Park (LGE)**

**Discussions:**

C: Some editorial comments.

A: Accepted and update to r1.

SP#2: Do you agree to the comment resolution as proposed in 11-21/1053r1 for the following CIDs?

* CID 4511, 5467

 No objection to the SP.

1. **1054r0 CC36 CR for CID 4516 and 4971 to 4974 – Eunsung Park (LGE)**

**Discussions:**

C: Is 1003 already motioned?

A: Not yet but expected to motion this week.

C: Any procedure issue?

C: Editor suggest changing the resolution to “Incorporate the changes as shown in 21/1003r0”.

A: Accepted and update to r1.

SP#3: Do you agree to the comment resolution as proposed in 11-21/1054r1 for the following CIDs?

* CID 4516, 4971, 4972, 4973, 4974

 No objection to the SP.

1. **1127r1 CC36 CR on PPDU Encoding Process – Youhan Kim (Qualcomm)**

**Discussions:**

C: Clarify that Two 996-tone RUs for EHT 160MHz MCS14 is not on 2x996 RU.

C: There is no definition for single stream pilot LTF.

A: The equation 36-41 is the definition of the single stream pilot LTF.

C: Some editorial comments.

A: Accepted and update to r2.

C: Defer CID 5527 and 4549.

A: Removed these 2 CIDs in the SP.

SP#4: Do you agree to the comment resolution as proposed in 11-21/1127r2 for the following CIDs?

* CID 4546, 7186, 4841, 8094, 7187, 7188, 4842, 6433, 4843, 7476, 7189, 4548, 5474

 No objection to the SP.

1. **1131r0 CC36 PLME – Youhan Kim (Qualcomm)**

**Discussions:**

No discussions.

SP#5: Do you agree to the comment resolution as proposed in 11-21/1131r0 for the following CIDs?

* CID 7282, 4914, 7283, 4557, 7284

 No objection to the SP.

**Technical submissions**

1. **247r4 BW Indication In Rts/Cts In 320 MHz Ppdu And Punctured Preambles – Brian Hart (Cisco)**

**Discussions:**

C: Slide 7: For the cyan curve, why it drops for SNR below 1dB?

A: At very low SNR, everything is bad. This is conditioned on parity check and good L-SIG.

SP#6:

* **Option A: No Parity or CRC to protect Service field**
	+ Any future use of Service field should be conditional on a good MPDU (which is already implicit in *today*’s use of the Service field)
* **Option B: Add 1 bit of Parity to Service field bit 15 that protects Service field bits 7-14**
* **Option C: Add 2 bits of Parity to Service field bits 14-15 that protect Service field bits 7-13 (Details TBD)**
* **Option D: Add a 3 bit CRC to Service field bits 13-15 that protects Service field bits 7-12**
* **Abstain**

**Pick your favorite option**

 Option A/ Option B/ Option C/ Option D/ Abs: 29/5/3/3/25

**Recess**

The meeting is Recessed at 20:32 PM ET

**Thursday July 15th, 2021 9:00 – 11:00 ET**

**Introduction**

1. The Chair (Sigurd Schelstraete, Quantenna/ON Semiconductor) calls the meeting to order at 9:00 ET.
2. The Chair follows the agenda in 11-21/0924r7.
3. Reminder for registration for the plenary meeting.
4. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. Nobody speaks up.
5. 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.
6. Discussions on the agenda.

CC36 CR Submissions:

* + [1088r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1088-00-00be-cc36-cr-on-36-6.doc) CC36-CR-on-36.6 Ross Jian Yu
	+ [1057r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1057-00-00be-cr-on-36-3-12-8-3-part1.doc) CR-on-36.3.12.8.3-part1 Ross Jian Yu
	+ [1048r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1048-00-00be-cc36-cr-on-36-3-12-8-1-general.doc) CC36 CR on 36.3.12.8.1 General Ross Jian Yu
	+ [1042r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1042-00-00be-cc36-cr-on-spatial-configuration-subfield.doc) CC36 CR on Spatial Configuration Subfield Ross Jian Yu
	+ [1041r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1041-00-00be-cc36-cr-on-annex-z.doc) CC36 CR on Annex Z Ross Jian Yu
	+ [1107r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1107-00-00be-cc36-cr-on-36-3-5.doc) CR on 36.3.5 Genadiy Tsodik
	+ [~~1103r0~~](https://mentor.ieee.org/802.11/dcn/21/11-21-1103-00-00be-cc36-cr-on-9-4-1-67a-d-d101-part1.doc) ~~CR on 9.4.1.67a-d part1 Genadiy Tsodik~~
	+ [1121r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1121-00-00be-cc36-cr-on-36-3-13-10.docx) CR on 36.3.13.10 Shimi Shilo
	+ [1101r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1101-00-00be-cc36-cr-for-36-3-12-6-rl-sig.docx) CR for 36.3.12.6 RL-SIG Dongguk Lim
	+ [1100r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1100-00-00be-cc36-cr-for-36-3-12-5-l-sig.docx) CR for 36.3.12.5 L-SIG Dongguk Lim
	+ [1099r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1099-00-00be-cc36-cr-for-for-36-3-12-3-l-stf.docx) CR for for 36.3.12.3 L-STF Dongguk Lim
	+ [1098r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1098-00-00be-cc36-cr-for-36-3-12-1-introduction.docx) CR for 36.3.12.1 Introduction Dongguk Lim
	+ [1097r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1097-00-00be-cc36-cr-for-36-3-4-eht-ppdu-formats.docx) CR for 36.3.4 EHT PPDU formats Dongguk Lim
	+ [1096r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1096-00-00be-cc36-cr-for-36-1-4-ppdu-formats.docx) CR for 36.1.4 PPDU formats Dongguk Lim
	+ [1134r0](https://mentor.ieee.org/802.11/dcn/21/11-21-1134-00-00be-cc36-cr-for-pilot.docx) CR for pilot Jinyoung Chun
	+ [1159r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1159-02-00be-cr-phy-txmask.docx) CR for spectral mask Xiaogang Chen

**CR contributions**

1. **1088r0 CC36 CR on 36.6 Parameters for EHT-SIG-MCSs** **– Ross Jian Yu (Huawei)**

**Discussions:**

No discussions.

SP#1: Do you agree to the comment resolution as proposed in 11-21/1088r0 for the following CIDs?

* CID 8152

Note: Instruction to Editor: Please make the changes as shown in 11-21/1088r0.

 No objection to the SP.

1. **1057r2 CC36 CR on 36.3.12.8.3 Common field for OFDMA transmission – Part 1– Ross Jian Yu (Huawei)**

**Discussions:**

C: “Number of Non-OFDMA users” field has some cases can be set to 0 so it should not be validate.

A: This is for non-OFDMA transmission and can only set to 1 or 2.

C: Some editorial comments.

A: Updated to r3.

SP#2: Do you agree to the comment resolution as proposed in 11-21/1057r3 for the following CIDs?

* CID 4670, 4854, 4855, 4856, 5416, 5417, 5418, 5420, 5478, 5479, 5528, 6153, 6438, 6439, 6467, 6468, 6469, 7002, 8110, 8111, 8112, 8113, 8114, 8115

 No objection to the SP.

1. **1048r0 CC36 CR on 36.3.12.8.3 General – Ross Jian Yu (Huawei)**

**Discussions:**

No discussions.

SP#3: Do you agree to the comment resolution as proposed in 11-21/1048r0 for the following CIDs?

* CID 7209, 7210, 4852, 5415, 8108, 8109, 8016, 8106, 8017, 8107, 8018, 4851

 No objection to the SP.

1. **1042r2 CC36 CR on Spatial Configuration Subfield – Ross Jian Yu (Huawei)**

**Discussions:**

C: For CID 4952, some rows are not used but it will be clearer to keep the rows in the table as reserved/No exist.

A: I will update the table and defer CID 4952, 5483 for this meeting.

SP#4: Do you agree to the comment resolution as proposed in 11-21/1042r3 for the following CIDs?

* CID 5484

 No objection to the SP.

1. **1041r0 CC36 CR on Annex Z EHT-SIG examples – Ross Jian Yu (Huawei)**

**Discussions:**

SP#5: Do you agree to the comment resolution as proposed in 11-21/1041r0 for the following CIDs?

* CID 4915, 4916, 5433, 6473, 6474, 6475

 No objection to the SP.

1. **1107r0 CC36 CR for Section 36.3.5 on P802.11be D1.01** **– Genadiy Tsodik (Huawei)**

**Discussions:**

C: Resolution to CID 7971 should be revised.

A: Change to revised and update to r1.

SP#6: Do you agree to the comment resolution as proposed in 11-21/1107r1 for the following CIDs?

* CID 5093, 7971

 No objection to the SP.

**Submission 11-21/1103 moved to Joint queue.**

1. **1121r0 CC36 CR on 36.3.13.10 Frequency Domain Duplication – Shimi Shilo (Huawei)**

**Discussions:**

C: Some clarification discussion on CID 6831 but no change to the resolution.

SP#7: Do you agree to the comment resolution as proposed in 11-21/1121r0 for the following CIDs?

* CID 4910, 6830, 6831, 7012.

 No objection to the SP.

1. **1101r0 CC36 CR on 36.3.13.10 Frequency Domain Duplication – Dongguk Lim (LGE)**

**Discussions:**

C: For CID 5719, the Rejection reason seems not answering the commenter. For the parameters not defined should refer to the earlier definitions after equation 36-15 or refer to subclause 36.3.11.4 on mathematical definition.

A: Change the resolution to revised and update to r1.

SP#8: Do you agree to the comment resolution as proposed in 11-21/1101r1 for the following CIDs?

* CID 5719, 7998.

 No objection to the SP.

1. **1100r0 CC36 CR for 36.3.12.5 L-SIG – Dongguk Lim (LGE)**

**Discussions:**

C: For CID 7996, I am ok with the resolution but it’s strange to talk about non-HT dup mode in a subclause for EHT preamble. Maybe should consider remove the non-HT related part later.

C: For CID 4667, the note is not straight forward. Need some offline discussion.

To be continued in next call.

**Adjourn**

The meeting is Adjourn at 11:00 AM ET