IEEE P802.11  
Wireless LANs

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| IEEE 802.11bf – Teleconference Minutes May-July 2021 | | | | |
| Date: 2021-04-27 | | | | |
| Author(s): | | | | |
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Abstract

This document contains minutes for the TG 802.11bf teleconferences in May-July 2021.

Rev 0: Minutes for TG 802.11bf teleconference on the 25th of May.

**Tuesday, May 25, 2021, 10:00-12:00 am (ET)**

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document:

<https://mentor.ieee.org/802.11/dcn/21/11-21-0875-01-00bf-tgbf-meeting-agenda-2021-05-06.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. Presentation of submissions
7. Any other business?
8. Adjourn
9. The chair, Tony Xiao Han, calls the meeting to order at 10:00am (about 50 persons are on the call after a few minutes of the meeting).
10. The chair goes through “Meeting Protocol, Attendance, Voting & Documentation Status” (slide 4), “Participants have a duty to inform the IEEE” (slide 6), and “Ways to inform IEEE” (slide 7).

The chair makes a Call for Potentially Essential Patents. No potentially essential patents reported, and no questions asked.

The chair goes through “Other Guideline for IEEE WG meetings” (slide 8), “Patent-related information” (slide 9), “ IEEE SA Copyright Policy” (slides 10 and 11), “Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct” (slide 12), “Participants in the IEEE-SA “individual process” shall act independently of others, including employers”(slide 13), and “IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints” (slide 14), and “Required notices” (slide 15).

The chair goes through the agenda (slide 21) and asks if there are any questions or comments on the agenda. Solomon Trainin explains that his contribution is related to Motion 16 and askes to run Motion 16 after his presentation. Chair askes the mover for Motion 16 if this is OK. The mover agrees to this.

The chair asks if there is any objection to approve the agenda. No objection from the group so the agenda is approved.

1. The Chair presents the TGf timeline (slide 17).
2. The Chair presents slide 18, Call for contributions.
3. The Chair presents the teleconference times (slide 19).
4. Presentations:

**11-21/0770r0, “Trellis Coded Quantization for CSI Feedback Part 1: Quantization for the Phase of CSI”, Junghoon Suh (Huawei):** The contribution was presented in the last teleconference, but there was no time fo Q&A.

Question/Comment (Q): I don’t understand how you get 1 bit saving from 1 dB improvement in SNR.

**11-21/0771r0, “Trellis Coded Quantization for CSI Feedback Part 2: Quantization for the Magnitude of CSI”, Junghoon Suh (Huawei):** This contribution is similar to the previous one, but considering the magnitude instead of the phase.

Q: I don’t think it is worth the extra complexity to get this relatively small gain.

Q: Do we need to make changes to the PHY?

Answer(A): No, not to the PHY.

Q: I also don’t think 1 dB gives1 bit gain.

Q: Do you expect this to be mandatory or optional?

A: Mandatory.

Q: We have already agreed on sending raw data as one option

A: In that case it has to be optional.

**Straw Poll 1:** Do you support to convert the CSI (CFR) in complex number to the CSI (CFR) in phase & magnitude for the Quantization of CSI?

-Note: CFR FB is one CSI FB type

**Y/N/A: 9/17/9**

**11-21/0854r0 “A Proposed Sensing Procedure for 802.11bf”, Osama Aboul-Magd (Huawei):** This submission presents a sensing procedure modelled after the sounding procedure in 802.11ac and 802.11ax.

Q: Do we need an announcement for each reference sequence sent?

A: No.

Q: Basically, the sensing feedback request is a Trigger Frame?

A: Yes.

**The SP is deferred.**

**11-21/0644r3, “Sensing session and measurement exchange identification”, Solomon Trainin (Qualcomm):** The contribution has been presented before, but with a relatively large number of persons voting NO on the SPs. The purpose with this presentation is to trigger discussion and to understand what the concern is in order to make progress.

After some discussions, we run out of time. The Chair suggests continuing the discussion off-line.

1. The Chair asks if there is any other business. No response from the group.
2. The meeting is adjourned without objection at 12:01 pm (ET).

**List of Attendees:**

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| Breakout | Timestamp | Name | Affiliation |
| TGbf | 5/25 | Aboulmagd, Osama | Huawei Technologies Co., Ltd |
| TGbf | 5/25 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| TGbf | 5/25 | Aygul, Mehmet | VESTEL; IMU |
| TGbf | 5/25 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 5/25 | Bredewoud, Albert | Broadcom Corporation |
| TGbf | 5/25 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 5/25 | Du, Rui | Huawei Technologies Co., Ltd |
| TGbf | 5/25 | feng, Shuling | MediaTek Inc. |
| TGbf | 5/25 | Kadampot, Ishaque Ashar | Qualcomm Incorporated |
| TGbf | 5/25 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 5/25 | Kim, Jeongki | LG ELECTRONICS |
| TGbf | 5/25 | Lu, Liuming | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 5/25 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 5/25 | Mirfakhraei, Khashayar | IEEE member / Self Employed |
| TGbf | 5/25 | Ozbakis, Basak | Vestel Electronics Corp. |
| TGbf | 5/25 | Pushkarna, Rajat | Panasonic Asia Pacific Pte Ltd. |
| TGbf | 5/25 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 5/25 | Shellhammer, Stephen | Qualcomm Incorporated |
| TGbf | 5/25 | Stephens, Adrian | Self |
| TGbf | 5/25 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbf | 5/25 | Trainin, Solomon | Qualcomm Incorporated |
| TGbf | 5/25 | Tsai, Tsung-Han | MediaTek Inc. |
| TGbf | 5/25 | Wang, Chao Chun | MediaTek Inc. |
| TGbf | 5/25 | Wang, Lei | Futurewei Technologies |
| TGbf | 5/25 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 5/25 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbf | 5/25 | Zeng, Ruochen | NXP Semiconductors |