IEEE P802.11  
Wireless LANs

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| IEEE 802.11bf – Teleconference Minutes September-November 2021 | | | | |
| Date: 2021-09-28 | | | | |
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Abstract

This document contains minutes for the TG 802.11bf teleconferences in September-November 2021.

Rev 0: Minutes for TG 802.11bf teleconference on the 28th of September 2021.

**Tuesday, September 28, 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/21/11-21-1571-00-00bf-tgbf-meeting-agenda-2021-09-11.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 37 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 16) and asks if there are any questions or comments on the agenda.

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

1. The Chair presents the TGbf timeline (slide 17). The chair also presents a newly added slide, slide 18, “Discussion of TGbf Timeline and Call for Action”. The slide explains the plan for how to move from SFD to Specification D0.1.
2. The Chair presents slide 19, Call for contributions. This slide has also been updated.
3. The Chair presents the teleconference times (slide 20).
4. Presentations:

**11-21/0504r3, “Specification Framework for TGbf”, Claudio da Silva (Facebook):** Claudio goes through the updates that have been made to the SFD. In particular quite a number of updates have been made based on the motions in the September Interim meeting. Claudio also points out that the figures need to be in black and white and that he needs the Visio file, and that when proposing text for the specification the contributors should keep this in mind.

Q: Is it possible to indicate what different clauses are impacted and perhaps also appoint responsible persons for these?

A: I have tried to indicate what I believe are the relevant clauses in the title of the different sections in the SFD.

Q: Do we need to fill out all the sections or can we leave some of the sections empty for D0.1?

A: It is OK to leave some emplty for D0.1.

Q: You said there will be no clause, what is that based on?

A: In the PAR we state we are going to modify clauses. Usually, a new clause is introduced when there is a new PHY.

**11-21/0876r3, “TGbf Evaluation Methodology and Simulation Scenarios”, Rui Du (Huawei):**  The document has been slightly updated since it was presented last time. There was not enough time for comments when presented last time, so some time is now allocated for Q&A.

Q: Related to the SP, why is this information written as a note? I believe it is an integral part of the SP.

A: OK. The SP is updated accordingly.

**Straw Poll:**

Do you agree to adopt the document (21/0876r3) as the Evaluation Methodology and Simulation Scenarios document for IEEE 802.11 bf?

Simulation is not mandatory for any contributions.

**Result:** Y/N/A: 20/0/6

**11-21/1364r1, “Threshold based sensing procedure”, Mengshi Hu (Huawei):**

Based on off-line discussion it is proposed that the calculations of the CSI variations should be implementation specific. However, some rules for the CSI calculations are suggested to be standardized.

Q: I believe you should replace “sensing procedure” with “measurement instance” in the straw polls.

A: I agree. The SPs are updated accordingly.

Q: How would this work if different implementations have different methods, specifically if the threshold are very different?

A: The threshold has to be per user, rather than universal.

Based on the discussion the word “normalized” is changed to “mapped”.

**Straw Poll 1:** Do you agree that in the threshold based measurement instance, the estimation of CSI variation is implementation specific, but the estimation result shall follow the following rules?

* The estimation value of the CSI variation shall be mapped to a closed interval [0, 1].
* A larger estimation value shall indicate a larger CSI variation degree (strictly increasing).
* The CSI variation of 0 indicates a minimum CSI variation.
* The CSI variation of 1 indicates a maximum CSI variation.

**Result:** Y/N/A: 14/5/6

**Straw Poll 2:** Do you agree that in the threshold based measurement instance, the threshold to be compared with the CSI variation value is determined by the initiator?

**Result:** Y/N/A: 16/1/6

**Straw Poll 3:** Do you agree that in the threshold based measurement instance

* The initiator sends the threshold to the responder.
* The responder feeds back the CSI variation to the initiator.
* The initiator shall not send a feedback trigger frame to a responder that reports a CSI variation that is less than the threshold.
* The initiator should send a feedback trigger frame to a responder that reports a CSI variation that is greater than or equal to the threshold.

We run out of time. Some time will be allocated in coming sessions to finalize the presentation.

1. The Chair asks if there is any other business. No response from the group.
2. The meeting is adjourned without objection at 12:02 pm (ET).

**List of Attendees:**

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| Breakout | Timestamp | Name | Affiliation |
| TGbf | 28-Sep | Aboulmagd, Osama | Huawei Technologies Co., Ltd |
| TGbf | 28-Sep | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| TGbf | 28-Sep | Au, Oscar | Origin Wireless |
| TGbf | 28-Sep | Aygul, Mehmet | VESTEL; IMU |
| TGbf | 28-Sep | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 28-Sep | Choi, Jinsoo | LG ELECTRONICS |
| TGbf | 28-Sep | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 28-Sep | feng, Shuling | MediaTek Inc. |
| TGbf | 28-Sep | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 28-Sep | Jang, Insun | LG ELECTRONICS |
| TGbf | 28-Sep | Kadampot, Ishaque Ashar | Qualcomm Incorporated |
| TGbf | 28-Sep | Kain, Carl | USDOT; Noblis |
| TGbf | 28-Sep | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 28-Sep | katla, satyanarayana | InterDigital, Inc. |
| TGbf | 28-Sep | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 28-Sep | Lin, Zinan | InterDigital, Inc. |
| TGbf | 28-Sep | Lumbatis, Kurt | CommScope, Inc. |
| TGbf | 28-Sep | Ozbakis, Basak | Vestel Electronics Corp. |
| TGbf | 28-Sep | Petrick, Albert | InterDigital |
| TGbf | 28-Sep | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 28-Sep | Sarikaya, Behcet | IEEE Member / Self Employed |
| TGbf | 28-Sep | Shellhammer, Stephen | Qualcomm Incorporated |
| TGbf | 28-Sep | Trainin, Solomon | Qualcomm Incorporated |
| TGbf | 28-Sep | Tsai, Tsung-Han | MediaTek Inc. |
| TGbf | 28-Sep | Varshney, Neeraj | National Institute of Standards and Technology |
| TGbf | 28-Sep | Wang, Chao Chun | MediaTek Inc. |
| TGbf | 28-Sep | Wei, Dong | NXP Semiconductors |
| TGbf | 28-Sep | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 28-Sep | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbf | 28-Sep | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |