IEEE P802.11  
Wireless LANs

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| IEEE 802.11bf - January 2023 Interim Meeting Minutes | | | | |
| Date: 2023-01-19 | | | | |
| Author(s): | | | | |
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Abstract

Rev 0: This document contains the IEEE 802.11bf January 2023 Interim meeting minutes.

### Monday, January 16, 2022, 7:30-9:30 pm

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2131-03-00bf-tgbf-meeting-agenda-2023-01-interim.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. Approve TGbf meeting minutes
4. TGbf Timeline
5. Call for contribution
6. Teleconference Times
7. Presentation of submissions
8. Guidance for Mix mode January Interim
9. Motion (236-255)
10. Any other business?
11. Recess
12. The chair, Tony Xiao Han, calls the meeting to order at 7:55pm after some technical issues with the equipment (57 persons are on the call after 30 minutes of the meeting, 13 persons are in the room).
13. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the January 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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 9), “Patent related information” (slide 10), “IEEE SA Copyright Policy” (slides 11 and 12), “Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct” (slide 13), “Participants in the IEEE-SA “individual process” shall act independently of others, including employers”(slide 14), and “IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints” (slide 15), and “Required notices” (slide 16).

The chair goes through the agenda (slide 17) and asks if there are any questions or comments on the agenda. Some clarifications are made with respect to when the motions will be run.

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

1. **Motion:** Move to approve TGbf minutes of meetings and teleconferences from November 2022 meeting to today:
   * November Plenary:

<https://mentor.ieee.org/802.11/dcn/22/11-22-2046-00-00bf-ieee-802-11bf-november-2022-plenary-meeting-minutes.docx>

* + Teleconferences November-January:

<https://mentor.ieee.org/802.11/dcn/22/11-22-2053-15-00bf-ieee-802-11bf-teleconference-minutes-november-2022-january-2023.docx>

* + TGbf AdHoc January 13-14 2023 - Baltimore Hilton:

[https://mentor.ieee.org/802.11/dcn/23/11-23-0076-01-00bf-ieee-802-11bf-january-2023-ad-hoc-meeting-minutes](https://mentor.ieee.org/802.11/dcn/23/11-23-0076-01-00bf-ieee-802-11bf-january-2023-ad-hoc-meeting-minutes.docx)

**Move:** Leif Wilhelmsson

**Second:** Alecsander Eitan

**Result:** Motion passed by unanimous consent

1. The chair presents the TGbf Timeline (slide 23).
2. The chair presents slide 25, Call for contributions.
3. The chair presents the teleconference times (slides 26 and 27). The chair also presents slides 30 and 31.
4. The chair presents Guidance for Mix mode November Plenary (slide 28).
5. Motions:

**Motion 236:** Move to approve “Rejected” resolutions to the CIDs:

* CID: 241
* With the following rejection reason: “The commenter has withdrawn the comment”

**Move:** Narengerile

**Second:** Alecsander Eitan

**Result:** Motion passed by unanimous consent

**Motion 237:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* Document 22/2187r1, “PDT Update on Ng Values”

**Move:** Claudio da Silva

**Second:** Alecsander Eitan

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/2187r1
* SP Result: Unanimous consent

**Motion 238:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* Document 23/0007r0, “PDT CSI 320 MHz Puncturing”

**Move:** Claudio da Silva

**Second:** Jiayi Zhang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0007r0
* SP Result: Unanimous consent

**Motion 239:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 23/0021r1 Proposed Modifications to Subclause 3.2

**Move:** Claudio da Silva

**Second:** Anirud Sahoo

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0021r1
* SP Result: Unanimous consent

**Motion 240:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 23/0020r1 "Updated Trigger Frame format"

**Move:** Ali Raissinia

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0020r1
* SP Result: Unanimous consent

**Motion 241:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 121, 906, 264, 238
* As specified in document 11-22/2197r0 ‘CC40 CR for Misc. CIDs for Sensing Measurement Setup’

**Move:** Insun Jang

**Second:** Dongguk Lim

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/2197r0
* SP Result: Unanimous consent

**Motion 242:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 385, 663
* As specified in document 11-22/2200r0 ‘Resolutions for Open Technical Comments’

**Move:** Claudio da Silva

**Second:** Dongguk Lim

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/2200r0
* SP Result: Unanimous consent

**Motion 243:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 287 and 483
* As specified in document 11-23/0002r4 ‘CC40 CR for Topic Threshold – Part 4’

**Move:** Mengshi Hu

**Second:** Naren

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0002r4
* SP Result: Unanimous consent

**Motion 244:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 11-23/0067r0 “SR2SI and SR2SR variants in TF Sounding Phase”

**Move:** Dong Wei

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0067r0
* SP Result: Unanimous consent

**Motion 245:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 575, 501
* in 11-22/1824r1 ‘CC40 CR for CID 575’

**Move:** Dongguk Lim

**Second:** Insun Jang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1824r1
* SP Result: Unanimous consent

Before Motion 246 is run, Dongguk Lim presents the updates made in revision 3 of document 11-22/2195.

**Motion 246:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 487, 585, 654
* in 11-22/2195r3 ‘CC40 CR for CID 487’

**Move:** Dongguk Lim

**Second:** Ali Raissinia

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/2195r2
* SP Result: Unanimous consent

**Motion 247:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 6, 254, 375, 381, 460, 486
* in 11-23/0009r0 ‘CC40 CR of 6 CIDs related to R2R’

**Move:** Dongguk Lim

**Second:** Insun Jang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0009r0
* SP Result: Unanimous consent

**Motion 248:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 11-22/2146r4 “Updated PDT Sensing NDPA Frame Format”

**Move:** Ali Raissinia

**Second:** Solomon Trainin

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/2146r4
* SP Result: Unanimous consent

**Motion 249:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* + 11-23/0059r2 “PDT Sensing Measurement Report”

**Move:** Mahmoud Kamel

**Second:** Ali Raissinia

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0059r2
* SP Result: Unanimous consent

**Motion 250:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 466 and 772
* in DCN 11-23/0071r1 (CC40 CR for CIDs 466 and 772)

**Move:** Dong Wei

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0071r1
* SP Result: Unanimous consent

**Motion 251:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 443 and 236
* in DCN 11-23-0001r1

**Move:** Assaf Kasher

**Second:** Solomon Trainin

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0001r1
* SP Result: Unanimous consent

**Motion 252:** Move to approve “Revised” resolutions to CIDs

* CID: 66, 508, 544, 741
* with the following justification: “The comment has been addressed in D0.5. No further modifications are necessary.”.

**Move:** Claudio da Silva

**Second:** Yan Xin

**Result:** Motion passed by unanimous consent

**Note：**

* SP Result: Unanimous consent

**Motion 253:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 11-23/0017r1, “Update of Sensing Poll Trigger frame”

**Move:** Dongguk Lim

**Second:** Jiayi Zhang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0017r1
* SP Result: Unanimous consent

**Motion 254:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 22/2205r1, “Resolution of TBDs in clause 9.4.2”

**Move:** Alecsander Eitan

**Second:** Solomon Trainin

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/2205r1
* SP Result: Unanimous consent

**Motion 255:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CID: 005, 061, 062, 063, 064, 118, 507, 897, 898, 374, 738, 792, 793, 165, 799, 797, 780, 762, 775, 740, 794
* in DCN 11-22-1998r3

**Move:** Dibakar Das

**Second:** Ali Raissinia

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1998r3
* SP Result: Unanimous consent

1. Presentation of submissions:

**11-23/0070r2, “RXVECTOR Parameter CSI\_ESTIMATE”, Claudio da Silva (Meta Platforms):**

This submission proposes a possible definition for the RXVECTOR parameter CSI\_ESTIMATE.

Claudio presented r1 of this contribution in the Ad-Hoc meeting and goes through the updates done in r2. Specifically, Claudio has added the EHT case.

Some clarifying discussion with respect to the format for the CSI\_ESTIMATE.

**Straw Poll:** Do you support the proposed text in this document?

**Result:** Unanimously supported.

**11-23/0065r1, “D0.51 Bug fixes”, Solomon Trainin (Qualcomm):**

Solomon presented r0 of this contribution during the Ad-Hoc meeting and goes through the updates made in r1.

**Straw Poll:** Do you support the proposed text in this document?

**Result:** Unanimously supported.

**11-23/0102r0, “D0.51 Bug fixes”, Dong Wei (NXP):**

This document proposes fixing a few minor issues in 11bf draft D0.51.

**Straw Poll:** Do you support the proposed text in this document?

**Result:** Unanimously supported.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 9.25 pm (ET).

### Tuesday, January 17, 2022, 8:00-10:00 am

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2131-03-00bf-tgbf-meeting-agenda-2023-01-interim.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. Guidance for Mix mode January Interim
8. Any other business?
9. Recess
10. The chair, Tony Xiao Han, calls the meeting to order at 8:00 am. (41 persons are on the call after 30 minutes of the meeting, 12 persons are in the room).
11. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the January 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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 9), “Patent related information” (slide 10), “IEEE SA Copyright Policy” (slides 11 and 12), “Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct” (slide 13), “Participants in the IEEE-SA “individual process” shall act independently of others, including employers”(slide 14), and “IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints” (slide 15), and “Required notices” (slide 16).

The chair goes through the agenda (slide 18) and asks if there are any questions or comments on the agenda. No response from the group.

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

1. The chair presents the TGbf Timeline (slide 23).
2. The chair presents slide 25, Call for contributions.
3. The chair presents the teleconference times (slides 26 and 27). The chair also presents slides 29-31.
4. The chair presents Guidance for Mix mode November Plenary (slide 28).
5. Presentation of submissions

**11-23/0080r0, “Comment Resolution for CID 673 and CID 674”, Osama Aboul-Magd (Huawei):**

The two CIDs relate to that Annex B on PICS and Annex G on frame exchange are missing and the document contains proposals for what may be included in these two annexes.

Osama explains that he does not intend to straw poll the document, but the intention is to provide input that can used if found useful.

**11-23/0055r3, “PICs baseline”, Assaf Kasher (Qualcomm):** This document proposes a baseline for the PICS annex changes.

Claudio comments that he did not think of the option that a STA could be only supporting SBP.

Q: I also share this view. I believe we should not separate them. If you are SBP capable you must also be WLAN Sensing capable.

Q: I believe it makes sense to keep them separate. I believe there are use cases where it makes sense that a STA can initiate the process, but where there are other nodes involved in the actual sensing.

As a result of the different views, the following SP is run.

**Straw Poll:** Do you prefer to have WLAN Sensing Device and WLAN SBP sensing device separate in the PICS?

**Result:** Y/N/A: 6/16/7

As a result of the SP, Assaf will update the document accordingly.

The chair encourages people to discuss more offline.

**11-22/2116r6, “PDT for RX\_OP\_Gain\_Type and RX\_OP\_Gain \_Index in CSI Report”, Julia Feng (Mediatek):** Julia goes through the changes made compared to earlier versions.

**Straw Poll:** Do you support the text in this document?

**Result:** Unanimously supported.

**11-23/0008r2, “PDT – non-DMG report timestamp generation”, Chris Beg (Cognitive Systems):**

This submission includes the proposed draft text on the non-DMG PHY report timestamp generation for P802.11bf D0.5.

Chris goes through the updates made to the earlier versions.

Based on comments from the group the text is slightly updated.

**Straw Poll:** Do you support the text in r3 of this document?

**Result:** Unanimously supported.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 10.02 am (ET).

### Tuesday, January 17, 2022, 7:30-9:30 pm

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2131-05-00bf-tgbf-meeting-agenda-2023-01-interim.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. Guidance for Mix mode January Interim
8. Motion (256-262)
9. Any other business?
10. Recess
11. The chair, Tony Xiao Han, calls the meeting to order at 7:30 pm (39 persons are on the call after 30 minutes of the meeting, 9 persons are in the room).
12. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the January 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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 9), “Patent related information” (slide 10), “IEEE SA Copyright Policy” (slides 11 and 12), “Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct” (slide 13), “Participants in the IEEE-SA “individual process” shall act independently of others, including employers”(slide 14), and “IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints” (slide 15), and “Required notices” (slide 16).

The chair goes through the agenda (slide 19) and asks if there are any questions or comments on the agenda. No response from the group.

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

1. The chair presents the TGbf Timeline change, which contains a proposal that will be straw polled later during the week. (slide 25).
2. The chair presents slide 26, Call for contributions.
3. The chair presents the teleconference times (slides 27 and 28).
4. The chair presents Guidance for Mix mode November Plenary (slide 29).
5. Motions:

**Motion 256:** Move to approve “Rejected” resolutions to the CIDs:

* CID: 670, 673, and 674
* With the following rejection reason: “The commenter has withdrawn the comment”.

**Move:** Claudio da Silva

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

**Motion 257:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 23/0070r2 RXVECTOR Parameter CSI\_ESTIMATE

**Move:** Claudio da Silva

**Second:** Solomon Trainin

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0070r2
* SP Result: Unanimous consent

**Motion 258:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 23-0065-01-00bf-CC40 D0.51 bug fixes

**Move:** Solomon Trainin

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0065r1
* SP Result: Unanimous consent

**Motion 259:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CID 588
* as specified in 23/0008r3

**Move:** Chris Beg

**Second:** Ali Raissinia

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0008r3
* SP Result: Unanimous consent

**Motion 260:** Move to approve “Rejected” resolutions to the CIDs:

* CID: 784
* With the following rejection reason: “The commenter has withdrawn the comment”.

**Move:** Claudio da Silva

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

**Motion 261:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 11-23/0102r0 “CC40 D0.51 bug fixes”

**Move:** Dong Wei

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0065r1
* SP Result: Unanimous consent

**Motion 262:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 11-22/2116r6 “PDT for Rx\_OP\_Gain\_Type and Rx\_OP\_Gain\_Index in CSI Report”

**Move:** Shuling Julia Feng

**Second:** Assaf Kasher

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-22/2116r6
* SP Result: Unanimous consent

1. Presentation of submissions

**11-23/0123r0, “Proposed Modification to Subclause 11.55.2.1”, Claudio da Silva (Meta Platforms):** This submission proposes normative text which defines that STAs that support SBP shall also support the WLAN sensing procedure.

Based on feedback from the group the proposed text is slightly updated.

The corresponding text for DMG is changed accordingly in the current specification.

**Straw Poll:** Do you support the text in r1 of this document?

**Result:** Unanimously supported.

**11-22/2101r3, “mmWave Phase Feedback”, Kevin Tsai (Mediatek):** Vital sign detection is one of 11BF use cases. In this contribution it is proposed to add a phase report in (E)DMG report elements for vital sign detection.

Q: I believe that you basically obtain the desired result when you calculate the Doppler. Therefore, I don’t really see the need for adding this. If you believe we don’t have sufficient resolution, we can make proper changes for the Doppler estimation.

Q: I am of the same opinion.

A: We believe that in case of very low Doppler, the proposed approach is preferred.

**Straw Poll:** Do you agree to add the following to 11bf SFD:

* The 11bf amendment shall add an option to report Phase in image report

**Result:**Y/N/A: 20/9/8

1. The chair announces that Wednesday AM2 is cancelled and asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 9.00 pm (ET).

### Wednesday, January 18, 2022, 8:00-10:00 am

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2131-08-00bf-tgbf-meeting-agenda-2023-01-interim.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. Guidance for Mix mode January Interim
8. Motion (263-265)
9. Any other business?
10. Recess
11. The chair, Tony Xiao Han, calls the meeting to order at 8:00 am (31 persons are on the call after 30 minutes of the meeting, 10 persons are in the room).
12. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the January 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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 9), “Patent related information” (slide 10), “IEEE SA Copyright Policy” (slides 11 and 12), “Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct” (slide 13), “Participants in the IEEE-SA “individual process” shall act independently of others, including employers”(slide 14), and “IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints” (slide 15), and “Required notices” (slide 16).

The chair goes through the agenda (slide 20) and asks if there are any questions or comments on the agenda. No response from the group.

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

1. The chair presents the TGbf Timeline (slide 24 and 25).
2. The chair presents slide 26, Call for contributions.
3. The chair presents the teleconference times (slides 27 and 28). The chair explains he will discuss later in this session about cancelling some of the remaining sessions.
4. The chair presents Guidance for Mix mode November Plenary (slide 29).
5. Presentation of submissions:

**11-23/0055r5, “PICs baseline”, Assaf Kasher (Qualcomm):** This document proposes a baseline for the PICS annex changes.

Revision 3 was presented and discussed yesterday, and Assaf goes through the updates in this revision compared to r3.

The document is slightly updated in based on feedback from the group.

**Straw Poll:** Do you agree to resolve CID 673 and CID 60 by the text changes specified in 11-23/0055r6?

**Result:** Unanimously supported.

**11-23/0125r0, “PDT RSSI in the Sensing Measurement Report”, Steve Shellhammer (Qualcomm):** This document provides proposed draft text for IEEE 802.11bf draft.

Q: In case there are several antennas at an AP, it may still be interesting even if some of the antennas have SNR < -82dBm.

As a consequence, the table is slightly updated. -82 dBm is replaced by <=-82dBm and -20 dBm is replaced by >=-20dBm. Also, some additional text is added.

Some discussion related to whether 5 dB accuracy is too much. No change is made to the text.

**Straw Poll:** Do you support the text in r1 of this contribution?

**Result:** Unanimously supported.

1. Motions:

**Motion 263:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 23/0123r1 Proposed Modifications to Subclause 11.55.2.1

**Move:** Claudio da Silva

**Second:** Mahmoud Kamel

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0123r1
* SP Result: Unanimous consent

**Motion 264:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CID 673, 60
* as specified in 11-22-055r7

**Move:** Assaf Kasher

**Second:** Alecsander Eitan

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/055r7
* SP Result: Unanimous consent

**Motion 265:** Move to include the text proposed in the following document into the IEEE 802.11bf draft amendment:

* 23/125r1, “PDT RSSI in the Sensing Measurement Report”

**Move:** Steve Shellhammer

**Second:** Dong Wei

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/125r1
* SP Result: Unanimous consent

Claudio goes through document 22-919/r16 and describes what is needed to generate D1.0. Claudio’s estimate is that we can start the LB early February.

**TG Motion: Initial LB**

* Having approved changes to P802.11bf D0.1, as defined in doc 11-22/0820r21: <https://mentor.ieee.org/802.11/dcn/22/11-22-0820-21-00bf-ieee-802-11bf-cc40-comments.xlsx>,
* Instruct the editor to prepare P802.11bf D1.0, and
* Approve a 30 day Working Group Technical Letter Ballot asking the question “Should P802.11bf D1.0 be forwarded to Standards Association Ballot?”

**Moved:** Dongguk Lim

**Seconded:** Assaf Kasher

**Preliminary Result\*:** Y/N/A: 24/0/2

**Result:** Y/N/A: 24/0/0

1. The chair announces that Wednesday AM2 and Thursday AM1 are cancelled and asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 10.05 am (ET).

### Thursday, January 19, 2022, 10:30 am - 12:30 pm

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2131-10-00bf-tgbf-meeting-agenda-2023-01-interim.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. Guidance for Mix mode November Plenary
8. SP for Timeline change of D2.0 and …
9. Any other business?
10. Adjourn
11. The chair, Tony Xiao Han, calls the meeting to order at 10:30 pm (33 persons are on the call after 10 minutes of the meeting, 13 persons are in the room).
12. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the January 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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 9), “Patent related information” (slide 10), “IEEE SA Copyright Policy” (slides 11 and 12), “Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct” (slide 13), “Participants in the IEEE-SA “individual process” shall act independently of others, including employers”(slide 14), and “IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints” (slide 15), and “Required notices” (slide 16).

The chair goes through the agenda (slide 21) and asks if there are any questions or comments on the agenda. No response from the group.

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

1. The chair presents the TGbf Timeline (slide 24) and discuss the proposed changes that have been made to the Timeline

**Straw Poll:** Do you agree to change the timeline as showing below?

* Recirculation LB (D2.0) *Jan 2023* 🡪 *~~March 2023~~*🡪 *July 2023*
* Recirculation LB (D3.0) *May 2023* 🡪 *Nov 2023*
* Recirculation LB (D4.0) *July 2023* 🡪 *Jan 2024*
* Initial SA Ballot (D4.0) Sep 2023 🡪 *March 2024*
* Final 802.11 WG approval *July 2024* 🡪 *Jan 2025*
* 802 EC approval *July 2024* 🡪 *Jan 2025*
* RevCom and SASB approval Sep 2024 🡪 *March 2025*

**Result:** Unanimously supported.

1. The chair presents the teleconference times (slides 27 and 28). The chair asks for comments concerning the proposed schedule for the March f2f. Claudio believes it would be sufficient with 3-4 time slots and that we can cancel some of the slots currently indicated. This is a view also shared by others in the group.

As a consequence, the EV1 session on Monday and the AM2 session on Wednesday are cancelled.

There is a comment from the group that the table indicating the time zones is not correct because daylight saving time will start in the US on the 12th of March, so this has to be corrected.

Based on some discussion the Teleconference Times are slightly updated.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is adjourned without objection at 11.16 am (ET).