IEEE P802.11  
Wireless LANs

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| IEEE 802.11bf - March 2024 Plenary Meeting Minutes | | | | |
| Date: 2024-01-18 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Leif Wilhelmsson | Ericsson AB | Mobilvägen 1, 22632 Lund, Sweden | +46-706-216956 | [leif.r.wilhelmsson@ericsson.com](mailto:leif.r.wilhelmsson@ericsson.com) |

Abstract

Rev 0: This document contains the IEEE 802.11bf March 2024 Plenary meeting minutes.

### Monday, March 11, 2024, 8:00 am-10:00 am

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/24/11-24-0239-02-00bf-tgbf-meeting-agenda-2024-03-plenary.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 meeting
8. Any other business?
9. Recess
10. The chair, Tony Xiao Han, calls the meeting to order at 8:00 am (49 persons are on the call after 20 minutes of the meeting).
11. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the March Plenary 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 standard 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. 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 21).
2. The chair presents slide 22, Call for contributions. The chair presents the schedule for the F2F meeting (slide 23).
3. The chair presents the teleconference times (slide 24) and schedule for May f2f meeting (25).
4. The chair presents Guidance for Mix mode meeting (slide 26) and Claudio gives a status update on the CR status and other relevant things related to the progress.

1. Presentation of submissions

**11-24/0464r1, “Enhancement for the SBP Procedure”, Mahmoud Kamel (InterDigital):** In this contribution, a proposal to resolve CID 4296 is discussed.

It is propsoed that simple changes to the current SBP negotiation procedure may enable a more flexible, simple and efficient SBP procedure.

Q: I believe the problem you discuss does not always exists. Also, I belieive this can be quite a high burden for the AP.

Q: We have discussed this is the past and decided to accept the limited flexibility to save on complexity.

The SP is deferred.

**11-24/0383r1, “LB281 resolutions on editorial comments”, Naren (Huawei):** This document proposes the LB281 comment resolution for CIDs 4267, 4268, 4270, and 4271.

CID 4267: No discussion.

CID 4268: No discussion.

CID 4270: No discussion.

CID 4271: No discussion.

**Straw Poll:** Do you agree to the resolution provided for CIDs 4267, 4268, 4270, and 4271 in 24/0383r1 to be included in the latest 11bf Draft?

**Result:** Unanimously supported.

**11-24/0308r0, “LB281 comment resolutions for DMG Part 2”, Rui Du (Huawei):**

This submission contains the proposed comment resolutions for the CIDs 4195 and 4071.

CID 4195: No discussion.

CID 4071: No discussion.

**Straw Poll:** Do you support resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 4195 and 4071 in 11-24/0308r0?

**Result:** Unanimously supported.

**11-24/0336r0, “LB281 CR for 11.55.1.5.2 TB sensing measurement exchange Part2”, Atsushi Shirakawa (Sharp):** This submission proposes resolutions for CID 4294, 4297 received for TGbf LB281.

CID 4294: Some clarifying discussion.

CID 4297: No discussion.

**Straw Poll:** Do you agree to the resolution provided for following CID 4294, 4297 to be included in the latest 11bf Draft?

**Result:** Unanimously supported.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 10:00 am.

### Monday, March 11, 2024, 4:00 pm-6:00 pm

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/24/11-24-0239-03-00bf-tgbf-meeting-agenda-2024-03-plenary.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 meeting
9. Motions (515-529)
10. Any other business?
11. Recess
12. The chair, Tony Xiao Han, calls the meeting to order at 4:00 pm (34 persons are on the call after 20 minutes of the meeting).
13. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the March Plenary 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 standard 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. **Motion:** Move to approve TGbf minutes of meetings and teleconferences from January 2023 meeting to today:
   * January Interim: <https://mentor.ieee.org/802.11/dcn/24/11-24-0185-01-00bf-ieee-802-11bf-january-2024-interim-meeting-minutes.docx>
   * Teleconferences January - March: <https://mentor.ieee.org/802.11/dcn/24/11-24-0211-06-00bf-ieee-802-11bf-teleconference-minutes-january-march-2024.docx>

**Move:** Leif Wilhelmsson

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

1. The chair presents the TGbf Timeline (slide 21).
2. The chair presents slide 22, Call for contributions. The chair presents the schedule for the F2F meeting (slide 23).
3. The chair presents the teleconference times (slide 24) and schedule for May f2f meeting (25).
4. The chair presents Guidance for Mix mode meeting (slide 26).
5. Motions:

**Motion 515:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4000, 4001, 4010, 4011, 4012, 4016, 4018, 4019, 4030, 4075, 4077, 4101, 4103, 4104, 4105, 4106, 4107, 4108, 4109, 4110, 4111, 4112, 4113, 4114, 4115, 4116, 4120, 4122, 4123, 4124, 4125, 4126, 4133, 4134, 4135, 4138, 4140, 4141, 4147, 4254, 4255, 4266, 4269, 4275, 4276, 4277, 4286, 4290
* as specified in doc.: 11-24/0327r0 ‘Proposed resolutions for editorial comments on D3.0’.

**Move:** Claudio da Silva

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-24/0327r0 ‘Proposed resolutions for editorial comments on D3.0’.

**Motion 516:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4047
* as specified in doc.: 24/0333

**Move:** Claudio da Silva

**Second:** Ali Raissinia

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 24/0333
* SP Result: Unanimous consent

**Motion 517:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4164, 4166, 4173, 4258, 4282, 4283, 4293
* as specified in doc.: 24/0207r1

**Move:** Atsushi Shirakawa

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

Note：

* Related document 24/0207r1
* SP Result: Unanimous consent

**Motion 518:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4031, 4165, 4298, 4300
* as specified in doc.: 24/0351r2

**Move:** Rui Du

**Second:** Zhuqing Tang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 24/0351r2
* SP Result: Unanimous consent

**Motion 519:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4121, 4132, 4130, 4131
* as specified in doc.: 11-24-361r2

**Move:** Rui Du

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24-361r2
* SP Result: Unanimous consent

**Motion 520:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4079, 4081 and 4204
* as specified in doc.: 11-24/0307r1

**Move:** Rui Du

**Second:** Zhuqing Tang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0307r1
* SP Result: Unanimous consent

**Motion 521:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4005, 4026, 4027, 4028, 4029, 4070
* as specified in doc.: 11-24/0301r1

**Move:** Zhuqing Tang

**Second:** Rui Du

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0301r1
* SP Result: Unanimous consent

**Motion 522:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4022, 4023, 4024, 4025, 4072, 4159, 4161, 4252
* as specified in doc.: 11-24/0302r1

**Move:** Zhuqing Tang

**Second:** Rui Du

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0302r1
* SP Result: Unanimous consent

**Motion 523:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4167 and 4168
* as specified in doc.: 11-24/0314r1

**Move:** Rui Du

**Second:** Chris Beg

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0314r1
* SP Result: Unanimous consent

**Motion 524:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4040, 4041, 4042, 4043, 4044, 4142, 4143, 4279
* as specified in doc.: 11-24/0149r1 ‘LB281 Reporting CID Resolutions’

**Move:** Chris Beg

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0149r1 ‘LB281 Reporting CID Resolutions’
* SP Result: Unanimous consent

**Motion 525:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4038, 4057, 4146, 4169, 4170, 4214, 4215, 4216, 4217, 4218, 4219, 4260
* as specified in doc.: 24/0310r0

**Move:** Atsushi Shirakawa

**Second:** Chris Beg

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 24/0310r0
* SP Result: Unanimous consent

**Motion 526:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs:4267, 4268, 4270, and 4271
* As specified in doc.: 11-24/0383r1

**Move:** Narengerile

**Second:** Zhuqing Tang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0383r1
* SP Result: Unanimous consent

**Motion 527:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4195 and 4071
* As specified in doc.: 11-24/0308r0

**Move:** Rui Du

**Second:** Zhuqing Tang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0308r0
* SP Result: Unanimous consent

**Motion 528:** Move to approve “Rejected” resolutions to the CIDs:

* CID: 4196
* With the following rejection reason: “The commenter has withdrawn the comment”

**Move:** Rui Du

**Second:** Zhuqing Tang

**Result:** Motion passed by unanimous consent

**Motion 529:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4294, 4297
* as specified in doc.: 24/0336r0

**Move:** Atsushi Shirakawa

**Second:** Rui Du

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 24/0336r0
* SP Result: Unanimous consent

1. Presentation of submissions

**11-24/0527r1, “Protected Sensing frame replay counters”, Henry Ptasinski (Element78 Communications LLC):** This submission presents a proposed resolution for the following CIDs from LB281 on P802.11bf: 4187, 4188 regarding replay sequence counter management for Protected Sensing frames.

The proposed changes are based on Draft P802.11bf\_D3.0.pdf, Draft P802.11REVme\_D5.0.pdf, and submission 11-24/342r1.

CIDs 4187 and 4188: Some clarifying discussion related to whether this is a capability or if this will be mandatory as well as to the two bits suggested to be added in the header.

Q: As this impacts the baseline, would it be appropriate to withdraw the comments and wait for the decision impacting the baseline?

A: I would be OK with that.

Henry will present to 802.11me tomorrow and it is therefore decided to wait and see what happens then.

11-24/0542r0, “LB281 CR for OST CIDs (11.55.1 Sensing Procedure) – Part 2”, Stephan Sand (German Aerospace Center (DLR)): This submission discusses resolutions to the following 7 CIDs from LB281 of TGbf D3.0.

The CID list is: 4021, 4059, 4060, 4062, 4063, 4191, 4281

CID 4281: No discussion.

CID 4062: No dicsussion.

CID 4191: No discussion.

CID 4063: A comment is made to the resolutions to all these CIDs that most likely these resolutions will not really convince the commenters. The view from some people in the group is that what is suggested by the commenters are basically to extend the scope, whereas the reponse from Stephen is that this essentailly already can be done.

CID 4059: No discussion.

CID 4060: No discussion.

CID 4021: No discussion.

**Straw Poll:** Do you support the resolution of the following 7 CIDs and instruct TGbf editor to incorporate the changes into the latest TGbf draft: 4021, 4059, 4060, 4062, 4063, 4191, 4281?

**Result:** Unanimously supported.

**11-24/0564r0, “LB281 Comment Resolution for CID 4186”, Ali Raissinia (Qualcomm):** This document provides comment resolution for CIDs 4186 using REVmeD4.2 and 11beD5.0 as references.

Ali gives a rather extensive explanation to the background of this CID.

CID 4186:

Run out of time

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 10:00 am.

### Tuesday, March 12, 2024, 8:00 am-10:00 am

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/24/11-24-0239-04-00bf-tgbf-meeting-agenda-2024-03-plenary.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 meeting
8. Motions (530-531)
9. Any other business?
10. Recess
11. The chair, Tony Xiao Han, calls the meeting to order at 8:00 am (64 persons are on the call after 20 minutes of the meeting).
12. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the March Plenary 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 standard 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 (slide 22).
2. The chair presents slide 23, Call for contributions. The chair presents the schedule for the F2F meeting (slide 24).
3. The chair presents the teleconference times (slide 25) and schedule for May f2f meeting (26).
4. The chair presents Guidance for Mix mode meeting (slide 27). The chair presented slide 29, which shows the statistics for the CIDs.
5. Motions:

### Motion 530: Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4272, 4273, 4274, 4076, 4139, 4089, 4137, 4302, 4303, 4182, 4183, 4205, 4206, 4002, 4003, 4213, 4220, 4221, 4223, 4224, 4225, 4227, 4228, 4229, 4230, 4231, 4232, 4233, 4234, 4235, 4236, 4237, 4238, 4239, 4240, 4241, 4263, 4265, 4222, 4226, 4198, 4305, 4069
* as specified in doc.: 11-24/0370r2

**Move:** Claudio da Silva

**Second:** Ali Raissinia

**Result:** Motion passed by unanimous consent

### Note：

* Related document 11-24/0370r2
* SP Result: Unanimous consent

### Motion 531: Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4021, 4059, 4060, 4062, 4063, 4191, 4281
* as specified in doc.: 11-24/0542r0

**Move:** Stephan Sand

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0542r0
* SP Result: Unanimous consent

1. Presentation of submissions

**11-24/0564r1, “LB281 Comment Resolution for CID 4186”, Ali Raissinia (Qualcomm):** This document provides comment resolution for CIDs 4186 using REVmeD4.2 and 11beD5.0 as references.

Ali started to present this contribution yesterday, but ran out of time. This is a continuation from yesterday.

Q: Why do we need this formative text?

A: I see your point, I would be OK to change from shall to should.

After some discussion in the group, it is decided to keep shall.

CID 4186: Some additional clarifying discussion and some typos are identified.

Ali will update the document and upload r2.

**11-24/0555r1, “LB281 Comment Resolutions for Exchange bucket CIDs”, Ali Raissinia (Qualcomm):** This document provides comment resolutions for CIDs 4285, and 4295 (2-total).

CIDs 4285 and 4295: Some clarifying discussion.

**Straw Poll:** Do you support the comment resolutions for CIDs 4285 and 4295 as presented in document 11-24/0555r1?

**Result:** Y/N/A: 19/4/11

1. The chair suggests cancelling the PM2 session today. The group agrees. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 9:23 am.

### Wednesday, March 13, 2024, 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/24/11-24-0239-07-00bf-tgbf-meeting-agenda-2024-03-plenary.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 meeting
8. Motions (532-536)
9. Any other business?
10. Recess
11. The chair, Tony Xiao Han, calls the meeting to order at 10:30 am (34 persons are on the call after 20 minutes of the meeting).
12. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the March Plenary 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 standard 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. Based on feedback from the group the agenda is slightly updated.

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

1. The chair presents the TGbf Timeline (slide 23)
2. The chair presents slide 24, Call for contributions. The chair presents the schedule for the F2F meeting (slide 25).
3. The chair presents the teleconference times (slide 26) and schedule for May f2f meeting (27).
4. The chair presents Guidance for Mix mode meeting (slide 28). The chair presented slide 29, which shows the statistics for the CIDs.
5. Motions:

**Motion 532:** Move to approve “Rejected” resolutions to the CIDs:

* + CID: 4280
  + With the following rejection reason: “The commenter has withdrawn the comment”.

**Move:** Narengerile

**Second:** Zhuqing Tang

**Result:** Motion passed by unanimous consent

**Motion 533:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CIDs: 4285 and 4295
  + as specified in doc.: 11-24-0555r1

**Move:** Ali Raissinia

**Second:** Chris Beg

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-24-0555r1
  + SP Result: 19Y, 4N, 11 A

**Motion 534:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CIDs: 4186
  + as specified in doc.: 11-24-0564r2

**Move:** Ali Raissinia

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-24-0564r2

**Motion 535:** Move to approve “Rejected” resolutions to the CIDs:

* + CID: 4187, 4188
  + With the following rejection reason: “The commenter has withdrawn the comment”.

**Move:** Henry Ptasinski

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Motion 536:** (This is run after Claudio presented 11-23/2095r2)

* Believing that the PAR contained in the document referenced below meets IEEE-SA guidelines,
* Request that the PAR contained in 11-23-2095r2 be posted to the IEEE 802 Executive Committee (EC) agenda for EC approval to submit to NesCom, granting the WG chair editorial license.

**Move:** Claudio da Silva

**Second:** Sang Kim

**Preliminary Result:** Y/N/A: 17/0/2

**Result\*:** Y/N/A: 17/0/2. Motion passes

**Note：**

* + \* Amended result accounts for removal of 0 votes of non-voting members.
  + Related document 23/2095r2
* SP Result: Unanimous consent

1. Presentation of submissions

**11-24/0582r2, “LB281 Comment Resolution CSI Feedback”, Christian Berger (NXP):** This submission proposes to address the following CIDs 4058, 4061, 4064, 4100, 4189, 4192, 4246, and 4190 (8 CIDs total), changes are relative to Draft P802.11be\_D4.0, Draft P802.11REVme\_D4.2, and Draft P802.11bf D3.0.

CIDs 4058, 4061, 4064, 4100, 4189, 4192, 4246, and 4190: Some clarifying discussion and input. Overall the group seems to agree that more work probably is needed and that more comments will be received in this matter.

Q: I believe we need to make more changes than those proposed. I believe more work is needed for us to agree on this.

A: I would be OK to postpone this if people feel uncomfortable with this.

The group agrees that some more work can be done during this meeting and come back in a later session.

**11-23/2092r2, “Enhancement for WLAN Sensing PAR”, Claudio da Silva (Meta Platforms):** Claudio goes through the updates made to the PAR.

**Strawpoll:** Do you agree with the proposed changes in this document?

**Result:** Unanimously supported.

**11-24/0141r8, “IEEE P802.11bf/D3.0 Mandatory Draft Review (MDR) Report”, Robert Stacey et al:** This document contains the report of the IEEE P802.11bf D3.0 Mandatory Draft Review.

Claudio goes through the document with the group and shows the different proposed changes. Some changes are made where the group agrees to do so.

Claudio will upload a new revision and encourages the group to review.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 12:27 pm.

### Wednesday, March 13, 2024, 4:00 pm-6:00 pm

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/24/11-24-0239-09-00bf-tgbf-meeting-agenda-2024-03-plenary.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 meeting
8. Any other business?
9. Recess
10. The chair, Tony Xiao Han, calls the meeting to order at 4:00 pm (65 persons are on the call after 40 minutes of the meeting).
11. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the March Plenary 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 standard 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)
2. The chair presents slide 25, Call for contributions. The chair presents the schedule for the F2F meeting (slide 26).
3. The chair presents the teleconference times (slide 27) and schedule for May f2f meeting (28).
4. The chair presents Guidance for Mix mode meeting (slide 29).

The chair presents 11-24/0419r1, emphasizing the updates when it comes to number of disapprove votes and what are the main reasons for these votes.

The chair if there are any questions on this document. No response from the group.

1. Presentation of submissions

**11-24/0464r0, “Enhancements for the SBP Procedure”, Mahmoud Kamel (InterDigital):** The document has been presented earlier, but it was decided that more discussions were needed off-line.

In this contribution, a proposal to resolve CID 4296 is discussed.

**Straw Poll: Which option do you prefer to enhance the SBP procedure?**

* 1. Option 1
  2. Option 2
  3. Option 3
  4. None of them
  5. Abs

**Result:** 1/2/3/None/Abs: 1/0/1/24/5

**11-24/0455r0, “Uniform Tone Spacing for Ng = 8 and 16”, Steve Shellhammer (Qualcomm):**

Q: What if there is puncturing?

A: Basically, making the tone spacing uniform does not impact the problem related to puncturing.

Q: I believe the complexity is no issues as it is.

A: We believe saving in complexity and memory is still useful.

Q: Do you suggest the changes only for 80 MHz?

A: It is for each 80 MHz segment in case of larger BW.

**Straw Poll:** Do you agree to replace the current subcarrier values for Ng = 8 and Ng=16 in the Sensing Measurement Report with the following subcarriers?

|  |  |
| --- | --- |
| **Ng** | **Tone Set** |
| 8 | [-496:8:-8, 8:8:496] |
| 16 | [-496:16:-16, 16:16:496] |

**Result:** Y/N/A: 17/21/7

**11-24/0456r0, “PDT Uniform Tone Spacing”, Steve Shellhammer (Qualcomm):** This document provides proposed draft text for IEEE 802.11bf draft.

This is the corresponding specification text to contribution 11-24/455r0.

No questions from the group.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 5:12 pm.

### Thursday, March 14, 2024, 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/24/11-24-0239-11-00bf-tgbf-meeting-agenda-2024-03-plenary.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 meeting
8. TGbf Report to EC on Conditional Approval to go to SA Ballot
9. Motion (537-544)
10. Any other business?
11. Adjourn
12. The chair, Tony Xiao Han, calls the meeting to order at 10:30 am ( 29 persons are on the call after 20 minutes of the meeting).
13. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the March Plenary 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 standard activities shall allow the fair & equitable consideration of all viewpoints” (slide 15), and “Required notices” (slide 16).

The chair goes through the agenda (slide 22) 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)
2. The chair presents slide 25, Call for contributions. The chair presents the schedule for the F2F meeting (slide 26).
3. The chair presents the teleconference times (slide 27) and schedule for May f2f meeting (28).
4. The chair presents Guidance for Mix mode meeting (slide 29).

The chair presents 11-24/0419r1, emphasizing the updates when it comes to number of disapprove votes and what are the main reasons for these votes.

The chair if there are any questions on this document. No response from the group.

1. Presentation of submissions

**11-24/0611r0, “LB281 Comment Resolution CSI Reject”, Christian Berger (NXP):** This submission proposes to address the following CIDs 4058, 4061, 4064, 4100, 4189, 4192, 4246, and 4190 (8 CIDs total), changes are relative to Draft P802.11be\_D4.0, Draft P802.11REVme\_D4.2, and Draft P802.11bf D3.0.

CIDs 4058, 4061, 4064, 4100, 4189, 4192, 4246, and 4190:

The SP is slighly updated after comments from the group.

**Straw Poll:** Do you support the definition of a “20 MHz sensing transmitter only” HE/EHT STA?

**Result:** Unanimously supported.

**Straw Poll:** Do you agree the proposed resolution in r1 of this document?

**Result:** Unanimously supported.

1. Presentation of TGbf Report to EC on Conditional Approval to go to SA Ballot

**11-24/0419r2, “P802.11bf report to EC on Conditional Approval to go to SA Ballot”, Tony Xiao Han (Huawei):** This document contains the report to the IEEE 802 Executive Committee in support of a request for conditional approval to send P802.11bf to SA Ballot.

1. Motions

**Motion 537:** Move to approve “Rejected” resolutions to the CIDs:

* + CID: 4296
  + 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 538:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CIDs: 4058, 4061, 4064, 4100, 4189, 4192, 4246, and 4190
  + as specified in doc.: 24/0611r1

**Move:** Claudio da Silva

**Second:** Chris Beg

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 24/0611r1
  + SP Result: Unanimous consent

**Motion 539 (MRD Approval):** Move to approve the P802.11bf Mandatory Draft Review (MDR) report in 11-24-0141r8 and apply to the TGbf draft.

**Move:** Claudio da Silva

**Second:** Stephan Sand

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-24-0141r8
  + SP Result: Unanimous consent

**Motion 540 (Report to EC):** Approve document 11-24-0419r2 as the report to the IEEE 802 Executive Committee on the requirements for conditional approval to forward P802.11bf to SA ballot, and grant editorial license to the TGbf chair.

**Move:** Sang Kim

**Second:** Narengerile

**Preliminary Result:** Y/N/A: 14/0/3

**Result\*:** Y/N/A: 14/0/2, motion passes

**Note：**

* + \* Amended result accounts for removal of 1 votes of non-voting members.
  + Related document 11-24-0419r2
  + SP Result: Unanimous consent

**Motion 541 (Conditional SA Ballot):** Request the IEEE 802 Executive Committee to conditionally approve forwarding P802.11bf to SA ballot.

**Move:** Claudio da Silva

**Second:** Sang Kim

**Preliminary Result:** Y/N/A: 15/0/1

**Result\*:** Y/N/A: 15/0/1, motion passes

**Note：**

* + \* Amended result accounts for removal of 0 votes of non-voting members.
  + SP Result: Unanimous consent

**Motion 542 (CSD Re-affirmation):**

* Re-affirm the P802.11bf CSD in ec-20-0203r0 <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0203-00-ACSD-p802-11bf.docx>

**Moved:** Claudio da Silva

**Seconded:** Sang Kim

**Preliminary Result:** Y/N/A: 16/0/0

**Result\*:** Y/N/A: 16/0/0, motion passes

**Note：**

* + Related document ec-20-0203r0
  + \* Amended result accounts for removal of 0 votes of non-voting members.

**Motion 543 (CAD Re-affirmation):**

* Re-affirm the P802.11bf CAD in 11-22-1795r2 <https://mentor.ieee.org/802.11/dcn/22/11-22-1795-02-00bf-tgbf-coexistence-assessment.docx>

**Moved:** Claudio da Silva

**Seconded:** Sang Kim

**Preliminary Result:** Y/N/A: 13/0/1

**Result\*:** Y/N/A: 13/0/1, motion passes

**Note：**

* + Related document 11-22-1795r2

\* Amended result accounts for removal of 0 votes of non-voting members.

**Motion 544 (recirculation letter ballot):**

* Having approved comment resolutions for all of the comments received from LB281 on P802.11bf D3.0 as contained in document 11-24/0028r14,

[https://](NULL)[mentor.ieee.org/802.11/dcn/24/11-24-0028-14-00bf-lb281-comments-and-approved-resolutions.xlsx](https://mentor.ieee.org/802.11/dcn/24/11-24-0028-14-00bf-lb281-comments-and-approved-resolutions.xlsx)

* Instruct the editor to prepare P802.11bf D4.0 incorporating these resolutions and,

Approve a 20 day Working Group Recirculation Ballot asking the question “Should P802.11bf D4.0 be forwarded to SA Ballot?”

**Moved:** Claudio da Silva

**Seconded:** Sang Kim

**Preliminary Result:** Y/N/A: 15/0/1

**Result\*:** Y/N/A: 15/0/1, motion passes

**Note：**

\* Amended result accounts for removal of 0 votes of non-voting members.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is adjourned without objection at 11:45 am.