IEEE P802.11
Wireless LANs

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| IEEE 802.11bf - January 2024 Interim Meeting Minutes |
| Date: 2024-03-11 |
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Abstract

Rev 0: This document contains the IEEE 802.11bf January 2024 Interim meeting minutes.

Rev 1: Some minor typos corrected.

### Monday, January 15, 2023, 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/23/11-23-2169-01-00bf-tgbf-meeting-agenda-2024-01-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 meeting
9. Any other business?
10. Recess
11. The chair, Tony Xiao Han, calls the meeting to order at 10:30 am (35 persons are on the call after 20 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 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. 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 November 2023 meeting to today:
	* November Plenary: <https://mentor.ieee.org/802.11/dcn/23/11-23-2134-00-00bf-ieee-802-11bf-november-2023-plenary-meeting-minutes.docx>
	* Teleconferences January: https://[mentor.ieee.org/802.11/dcn/24/11-24-0058-00-00bf-ieee-802-11bf-teleconference-minutes-january-2024.docx](https://mentor.ieee.org/802.11/dcn/24/11-24-0058-00-00bf-ieee-802-11bf-teleconference-minutes-january-2024.docx)

**Move:** Leif Wilhelmsson

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

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). There is a comment from the group that the 19th is a Holiday in the US and therefore it is proposed to cancel this teleconference. There is no objection from the group. The proposed session times for the March f2f are briefly discussed.
4. The chair presents Guidance for Mix mode meeting (slide 28) and Claudio gives a status update (slide 29). It is stressed that it is important to have good motivations for the resolutions, especially if the proposed resolution is reject. Also, for the more controversial comments, it is emphasized that the corresponding contributions should be presented as early as possible to allow sufficient time for discussion.
5. Presentation of submissions

**11-24/0082r1, “LB282 CR for OST CIDs (11.5.1 Sensing Procedure)”, Stephan Sand (DLR):** This submission discusses resolutions to the following 12 CIDs from LB281 of TGbf D3.0. The CID list is: 4014, 4015, 4017, 4045, 4046, 4073, 4074, 4085, 4251, 4281, 4284, 4292

CID 4281: Some clarifying discussion. As a result, the CID is deferred, and Stephan will do some more work to take the received comments into account.

CID 4292: No discussion.

CID 4014: No discussion.

CID 4015: No discussion.

CID 4251: Some clarifying discussion. As a result, it is proposed to defer this CID and check offline with some of the persons involved.

CID 4284: No discussion.

CID 4017: No discussion.

CID 4045: No discussion.

CID 4073: No discussion.

CID 4074: No discussion.

CID 4085: Some clarifying discussion. As a result, the proposed resolution is slightly updated.

CID 4046: No discussion.

It is noted that there is a typo in the title. Stephan will update this for the next revision.

**11-24/0109r0, “Resolutions for Exchange CIDs for LB281”, Cheng Chen (Intel):**

This submission proposes resolutions to the following comments submitted in LB281 under Exchange topic. The CIDs are referring to D3.0. The text used as reference is D3.0.

CIDs: 4032 4033 4039 4084 4179 4287 4288 4301 4304

CID 4032: No discussion.

CID 4033: Some discussion with the commenter. There is no change of the proposed resolution.

CID 4039: The proposed resolution is changed from accepted to revised as a typo is corrected.

CID 4084: No discussion.

CID 4179: No discussion.

CID 4287: No discussion. The CID is deferred as Cheng identifies that some more text is needed.

CID 4288: No discussion. The CID is deferred as Cheng identifies that some more text may be needed.

CID 4301: No discussion.

CID 4304: Some clarifying discussion related to the terminology.

**11-24/0111r0, “Resolutions for OST CIDs for LB281”, Cheng Chen (Intel):**

This submission proposes resolutions to the following comments submitted in LB281 under OST topic. The CIDs are referring to D3.0. The text used as reference is D3.0.

CIDs: 4197 4250 4298 4299

CID 4197: No discussion.

CID 4250: After discussion in the group, it is agreed that the comment should be rejected.

CID 4298: Some clarifying discussion. As a result, the CID is deferred.

CID 4299: Some clarifying discussion

**Straw Poll:** Do you support the proposed resolutions in r1 to the CIDs and incorporate the text changes into the latest TGbf draft?

**Result:** Unanimously supported.

The group agrees to cancel session PM2 tomorrow. Tony will send out information.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 12:30 pm.

### Tuesday, January 16, 2023, 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/23/11-23-2169-02-00bf-tgbf-meeting-agenda-2024-01-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 meeting
8. Any other business?
9. Recess
10. The chair, Tony Xiao Han, calls the meeting to order at 10:53 am (70 persons are on the call after 20 minutes of the meeting, 11 persons are in the room).
11. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the January 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 call for contribution (slide 24).
3. The chair presents the schedule for the f2f meeting (slide 25).
4. The chair presents the teleconference times (slide 26).
5. The chair presents Guidance for Mix mode meeting (slide 28).
6. Presentation of submissions

**11-24/0109r2, “Resolutions for Exchange CIDs for LB281”, Cheng Chen (Intel):**

This submission proposes resolutions to the following comments submitted in LB281 under Exchange topic. The CIDs are referring to D3.0. The text used as reference is D3.0.

CIDs: 4032 4033 4039 4084 4179 4287 4288 4301 4304

Revision 0 of the contribution was presented yesterday, and Cheng goes thorough the updates.

CID 4039: No discussion.

CID 4287: No discussion.

CID 4288: No discussion.

**Straw Poll:** Do you support the proposed resolutions to the CIDs and incorporate the text changes into the latest TGbf draft?

 **Result:** Unanimously supported.

**11-24/0121r0, “LB281 Comment Resolutions for Exchange bucket CIDs”, Ali Raissinia (Qualcomm):** This document provides comment resolutions for CIDs 4082, 4178, 4181, 4185, 4285 and 4295 (6-total).

CID 4082: Clarifying discussion with the commenter, who agrees with the proposed resolution.

CID 4178: Some clarifying discussion.

CIDs 4181 and 4185: No discussion.

CIDs 4285 and 4295: Rather lengthy discussion with the commenter.

**Straw Poll:** Would you agree to adopt the comment resolutions for CIDs 4082, 4178, 4181, 4185, 4285 and 4295 (6-total) per document 11/24/0121r0?

**Result:** Y/N/A:14/16/12

 Because only the two last CIDs were controversial, a SP is run for the first four CIDs.

**Straw Poll:** Would you agree to adopt the comment resolutions for CIDs 4082, 4178, 4181, 4185 per document 11/24/0121r0?

**Result:** Unanimously supported.

**11-24/0104r0, “LB281 CR for CID 4004, 4102, 4144, 4145, 4242”, Shuling Julia Feng (Mediatek):** This submission proposes resolutions to the following comments submitted in LB281 on 11bf D3.0.

CIDs: 4004, 4102, 4144, 4145, 4242

CID 4004: No discussion.

CID 4102: Based on a comment from the group, the resolution is changed from accepted to revised.

CID 4144: Based on a comment from the group, the resolution is changed from accepted to revised.

CID 4145: Based on a comment from the group, the resolution is changed from accepted to revised.

CID 4242: No discussion.

**Straw Poll:** Do you agree to the resolutions provided for CID 4004, 4102, 4144, 4145, and 4242 in 802.11-24/0104r1 to be included in 11bf Draft 3.1?

 **Result:** Unanimously supported.

The chair asks if someone plans to present any more contribution this week. Stephan informs he will be ready with the updated version and Cheng also believes he will be able to generate a contribution.

The session at AM2 on Wednesday is cancelled as there are no contributions.

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

### Thursday, January 18, 2023, 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/23/11-23-2169-04-00bf-tgbf-meeting-agenda-2024-01-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 meeting
8. Motion (493-501)
9. Any other business?
10. Adjourn
11. The chair, Tony Xiao Han, calls the meeting to order at 10:30 am (30 persons are on the call after 15 minutes of the meeting, 8 persons are in the room).
12. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the January 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 (slide 23).
2. The chair presents Call for contribution (slide 24)
3. The chair presents Teleconference times (slide 26)
4. The chair presents Guidance for Mix mode meeting (slide 28)
5. Presentation of submissions

**11-24/0153r1, “LB281 CR for OST CIDs (11.5.1 Sensing Procedure)”, Stephan Sand (DLR):** This submission discusses resolutions to the following 12 CIDs from LB281 of TGbf D3.0. The CID list is: 4014, 4015, 4017, 4045, 4046, 4073, 4074, 4085, 4251, 4281, 4284, 4292

The CIDs has been discussed in the document 0082 on Monday. This is the same text, but Stephan has updated with a new dcn as there was a typo in the title.

### CID 4281: After feedback from the technical editor it is agreed to defer this CID.

CID 4251: No discussion.

CID 4085: No discussion.

**Straw Poll:** Do you support the resolution of the following CIDs and instruct TGbf editor to incorporate the changes into the latest TGbf draft: 4014, 4015, 4017, 4045, 4046, 4073, 4074, 4085, 4251, ~~4281,~~ 4284, 4292?

**Result:** Unanimously supported.

**11-24/0115r1, “Resolutions for SBP CIDs for LB281”, Cheng Chen (Intel):** This submission proposes resolutions to the following comments submitted in LB281 under SBP topic. The CIDs are referring to D3.0. The text used as reference is D3.0.

CIDs: 4151, 4008, 4049, 4051, 4262

CID 4151: No discussion.

CID 4008: No discussion.

CID 4049: No discussion.

CID 4051: No discussion.

CID 4262: Some clarifying discussion.

**Straw Poll:** Do you support the proposed resolutions to the CIDs and incorporate the text changes into the latest TGbf draft?

**Result:** Unanimously supported.

**11-24/0169r0, “LB281 CR for OST CIDs”, Dong Wei (NXP):** This document aims to resolve the following ten LB281 comments: CIDs 4020, 4083, 4243, 4244, 4245, 4247, 4249, 4253, 4256, and 4257.

CIDs 4243, 4244, 4245, 4247, 4249, 4256, and 4257: No discussion.

CID 4020, 4083, 4253: Some clarifying discussion.

**Straw Poll:** Do you agree to the resolutions provided in the document 11-24/169r0for CIDs 4020, 4083, 4243, 4244, 4245, 4247, 4249, 4253, 4256, and 4257?

**Result:** Unanimously supported.

**11-24/0170r1, “LB281 CR for Exchange CIDs”, Dong Wei (NXP):** This document aims to resolve the following seven LB281 comments: CIDs 4034, 4035, 4036, 4180, 4259, 4261, and 4278.

CIDs 4034, 4035, 4036: Some clarifying discussion.

CID 4180: Some clarifying discussion supporting the proposed resolution.

CID 4259 and 4261: Comment: I see your point, but I believe what we have is sufficient.

Some discussion with respect to whether the current specification is sufficiently clear in this aspect.

Asa result, Dong decides to withdraw the comments as they were his.

CID 4278: No discussion.

**Straw Poll:** Do you agree to the resolutions provided in the document 11-24/170r0for CIDs 4034, 4035, 4036, 4180, and 4278?

**Result:** Unanimously supported.

1. Motions

**Motion 493:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4197, 4250, and 4299
* as specified in doc.: 11-24/0111r2

**Move:** Cheng Chen

**Second:** Pu Perry Wang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0111r2
* SP Result: Unanimous consent

**Motion 494:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4032 4033 4039 4084 4179 4287 4288 4301 4304
* as specified in doc.: 11-24/0109r2

**Move:** Cheng Chen

**Second:** Stephan Sand

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0109r2
* SP Result: Unanimous consent

**Motion 495:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4082, 4178, 4181, and 4185
* as specified in doc.: 11-24/0121r1

**Move:** Ali Raissinia

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0121r1
* SP Result: Unanimous consent

**Motion 496:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4004, 4102, 4144, 4145, 4242
* as specified in doc.: 11-24/0104r1

**Move:** Julia Feng

**Second:** Chris Beg

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0104r1
* SP Result: Unanimous consent

**Motion 497:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4014, 4015, 4017, 4045, 4046, 4073, 4074, 4085, 4251, 4284, 4292
* as specified in doc.: 11-24/0153r4

**Move:** Stephan Sand

**Second:** Mahmoud Kamel

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0153r4
* SP Result: Unanimous consent

**Motion 498:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CIDs: 4151, 4008, 4049, 4051, 4262
	+ as specified in doc.: 11-24/0115r1

**Move:** Cheng Chen

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-24/0115r1
	+ SP Result: Unanimous consent

**Motion 499:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4020, 4083, 4243, 4244, 4245, 4247, 4249, 4253, 4256, and 4257
* as specified in doc.: 11-24/0169r0

**Move:** Dong Wei

**Second:** Stephan Sand

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0169r0
* SP Result: Unanimous consent

**Motion 500:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs: 4034, 4035, 4036, 4180,  and 4278
* as specified in doc.: 11-24/0170r1

**Move:** Dong Wei

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-24/0170r1
* SP Result: Unanimous consent

**Motion 501:**  Move to approve “Rejected” resolutions to the CIDs:

* CID: 4259 and 4261

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

**Move:** Dong Wei

**Second:** Mahmoud Kamel

**Result:** Motion passed by unanimous consent

1. The chair asks if there is AoB. No response from the group.
2. The meeting is adjourned without objection at 12:30 pm.