IEEE P802.11  
Wireless LANs

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| IEEE 802.11bf – Teleconference Minutes March - May 2023 | | | | |
| Date: 2023-05-14 | | | | |
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| Sang Kim | LGE |  |  |  |

Abstract

This document contains minutes for the TG 802.11bf teleconferences in March-May 2023.

Rev 0: Minutes for TG 802.11bf teleconference on the 23rd-24th of March 2023.

Rev 1: Minutes for TG 802.11bf teleconference on the 27th of March 2023 added.

Rev 2: List of Attendees for teleconference on the 23rd and 27th of March 2023 added.

Rev 3: One typo corrected and the minutes for TG 802.11bf teleconference on the 6th of April 2023 added.

Rev 4: Minutes for TG 802.11bf teleconference on the 11th of April 2023 added.

Rev 5: List of Attendees for teleconference on the 6th and 11th of April 2023 added.

Rev 6: Minutes for TG 802.11bf teleconference on the 13th of April 2023 added.

Rev 7: Minutes for TG 802.11bf teleconference on the 18th of April 2023 added.

Rev 8: Minutes for TG 802.11bf teleconference on the 20th of April 2023 added.

Rev 9: Minutes for TG 802.11bf teleconference on the 24th of April 2023 added.

Rev 10: Minutes for TG 802.11bf teleconference on the 25th of April 2023 added and List of Attendees for teleconference on the 13th, 18th, 20th, and 24th added.

Rev 11: List of Attendees for teleconference on the 25th of April 2023 added.

Rev 12: List of Attendees for teleconference on the 25th of April 2023 corrected.

Rev 13: Minutes for TG 802.11bf teleconference on the 4th of May 2023 added.

Rev 14: Minutes for TG 802.11bf teleconference on the 8th and 9th of May 2023 added.

Rev 15: List of Attendees for teleconference on the 4th, 8th, and 9th of May 2023 added.

### Thursday, March 23, 2023, 11:00pm - 01:00am (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0498-01-00bf-tgbf-meeting-agenda-2023-03.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 Han, calls the meeting to order at 11:00 pm ET (31 persons are on the call after 20 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 question on the agenda.

Claudio explains that contribution 511 has to be deferred to the next time.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 18).
2. The chair presents slide 19, Call for contributions.
3. The chair presents the teleconference times (slide 20). He mentions that 57meeting slots are being planned for the May meeting.
4. Presentation of submission:

**11-23/0476r1, “Comment resolution for OST miscellaneous comments” Chaoming Luo (OPPO):** This submission resolves miscellaneous comments under ‘OST’ topic. The following 9 CIDs are resolved: 1082, 1083, 1526, 1555, 1556, 1702, 1844, 1341, 1501.

CIDs 1082,1083,1526,1555, and 1556: Some clarifying discussion. As a result, the proposed resolution is slightly updated e.g. by adding text related to that an associated non-AP STA ignores this Responder Needed field.

Q: Probe response can also be broadcast, so I think it should be clarified that here it assumed that probe response is for the unicast case.

CIDs 1702, 1844, 1341, and 1501.

Some clarifying discussion related to 1844.

**Straw Poll:** Do you support resolutions to the following 9 CIDs and incorporate the text changes into the latest TGbf draft: 1082, 1083, 1526, 1555, 1556, 1702, 1844, 1341, 1501, in 11-23/0476r2.

Unanimously supported.

**11-23/0508r1, “Comment resolution for Misc Security comments”, Chaoming Luo (OPPO):**

This submission resolves security related comments under ‘Misc’ topic. The following 4 CIDs are resolved: 1478, 1479, 2263, 2265.

CID 1478, 1479, 2263, 2265: Some clarifying discussions. A note is added.

**Straw Poll:** Do you support resolutions to the following 4 CIDs and incorporate the text changes into the latest TGbf draft: 1478, 1479, 2263, 2265, in 11-23/0508r1.

Unanimously supported.

**11-23/0510r0, “Proposed resolutions for editorial comments on D1.0 - Part 1”, Claudio da Silva (Meta):** This document contains ”trivial” editorial comments that Claudio intends to be accepted. Claudio proposes that the group checks this offline so save time and then not have to go through these comments in detail during a call.

**11-23/0505r0, “LB272-DMG-CIDs-phase-report”, Alecsander Eitan (Qualcomm): This document proposes resolution to several LB272 DMG** CIDs related to adding phase value to DMG Sensing Image report.

CIDs 1031,1174, 1209, 1408, 1409: Some clarifying discussion and as a result the proposed resolutions are slightly updated.

**Straw Poll:** Do you agree with the proposed resolutions in revision 1 of this document?

Unanimously supported.

**11-23/0506r0, “LB272-DMG-CIDs-Earth-Coordinates”, Alecsander Eitan (Qualcomm):**

This document proposes resolution to several LB272 DMG CIDs related to Earth Coordinates in DMG Sensing.

CID 1306, 1307, 1308, 1309, 1310, 1324, and 1325: Some clarifying discussion and as a result the proposed resolutions are slightly updated.

Alecsander wants to update the text before running the SP.

1. The chair asks if there is any other business. No response from the group.
2. The meeting is adjourned without objection at 00:55 am.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 3/23 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 3/23 | Chen, You-Wei | Mediatek Inc |
| TGbf | 3/23 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbf | 3/23 | Chitrakar, Rojan | Huawei International Pte Ltd |
| TGbf | 3/23 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 3/23 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 3/23 | Eitan, Alecsander | Qualcomm Technologies, Inc. |
| TGbf | 3/23 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 3/23 | Huang, Lei | Huawei International Pte Ltd |
| TGbf | 3/23 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 3/23 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 3/23 | Sahoo, Anirudha | National Institute of Standards and Technology |
| TGbf | 3/23 | Tsai, Tsung-Han | MediaTek Inc. |
| TGbf | 3/23 | Wang, Pu | Mitsubishi Electric Research Labs (MERL) |
| TGbf | 3/23 | Wei, Dong | NXP Semiconductors |
| TGbf | 3/23 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |

### Monday, March 27, 2023, 10:00am - 12:00pm (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0498-03-00bf-tgbf-meeting-agenda-2023-03.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 Han, calls the meeting to order at 10:00 am ET (24 persons are on the call after 10 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 17) and asks if there are any question on the agenda.

There is a request to defer document 514.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 19).
2. The chair presents slide 20, Call for contributions.
3. The chair presents the teleconference times (slide 21).
4. Presentation of submission:

**11-23/0506r1, “LB272-DMG-CIDs-Earth-Coordinates”, Alecsander Eitan (Qualcomm):**

This document proposes resolution to several LB272 DMG CIDs related to Earth Coordinates in DMG Sensing.

The contribution has been updated according to the discussion in the last teleconference and Alecsander goes through these updates.

**Straw Poll:** Do you agree with CRs presented in document 11-23/0506r1?

Unanimously supported.

**11-23/0511r0, “Proposed resolutions for editorial comments on D1.0 - Part 2”, Claudio da Silva (Meta):** This document contains proposed resolutions for editorial comments on D1.0 (LB272). The text used as reference is D1.0.

CIDs: 1973, 1980, 1510, 2200, 1039, 1124, 1602, 1018, 1019, 1313, 1677, 1630, 1838, 2094, 1678, 1632, 1839, 1633, 1907, 1840, 2187, 1631, 2095, 1981

CIDs 1973 and 1980: Q: Why is instance not a good term?

A: I can check with Robert to get more information.

Q: I also agree, I don’t think measurement exchange sounds right.

Q: I agree with keeping instance, I just want to mention that the term exchange has been used in ranging.

CIDs 1510, 2200, and 1039: After some discussion it is agreed to use the terms Sensing Polling and Sensing Reporting. Claudio will update accordingly.

CIDs 1124,1602, 1018, and 1019: No discussion.

CID 1313: No discussion.

CIDs 1677, 1630, 1838, and 2094: No discussion.

CIDs 1678, 1632, and 1839: No discussion.

CIDs 1633, 1907, 1840, and 2187: No discussion.

CIDs 1631 and 2095: No discussion.

CID 1981: Q: What if we would use “if” throughout?

A: Note that Robert does not suggest that “if ” should be used everywhere.

**11-23/0515r0, “Comment Resolution in LB272 for Reporting CID (Part 2)”, Anirud Sahoo (NIST):** This document resolves comment in LB272 with CID 1147, 1156.

CID 1147: Q: I just want to remark that it does not make sense to write what NOT to do, as there is an infinite amount of things that should not be done. This is why it is written as a note.

As a result, the resolution is changed to rejected.

CID 1156: Some clarifying discussion.

Anirud explains he will update the document based on the received feedback.

**11-23/0477r0, “Comment resolution for sensing session”, Chaoming Luo (OPPO):**

This submission resolves comments related to the concept of ‘sensing session’. The following 31 CIDs are resolved: 1330, 1976, 2295, 1668, 1058, 1346, 1445, 1007, 1447, 1861, 2232, 1799, 1975, 2233, 1035, 1029, 2234, 1914, 1862, 1708, 2236, 1008, 1774, 2238, 1527, 2235, 2237, 1847, 1848, 1086, 1036.

CIDs 1330, 1976, 2295, 1668, 1058, 1346, 1445, 1007, 1447, 1861, 2232, 1799, 1975, 2233, 1035, 1029, 2234, 1914, 1862, 1708, 2236, 1008, 1774, 2238, 1527, 2235, 2237, 1847, 1848, 1086, and 1036:

Run out of time at page 21 of the document.

The Chair asks if there is any other contribution for tomorrow, because otherwise the call may be cancelled. The group agrees that the call can be cancelled.

1. The chair asks if there is any other business. No response from the group.
2. The meeting is adjourned without objection at 12:03 pm.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 3/27 | Aygul, Mehmet | VESTEL; IMU |
| TGbf | 3/27 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 3/27 | Dash, Debashis | Apple Inc. |
| TGbf | 3/27 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 3/27 | feng, Shuling | MediaTek Inc. |
| TGbf | 3/27 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 3/27 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 3/27 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 3/27 | Minayi Jalil, Amir | Aerial Technologies |
| TGbf | 3/27 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 3/27 | Rafique, Saira | Istanbul Medipol University; Vestel |
| TGbf | 3/27 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 3/27 | Sahoo, Anirudha | National Institute of Standards and Technology |
| TGbf | 3/27 | Schweizer, Benedikt | Apple Inc. |
| TGbf | 3/27 | Wei, Dong | NXP Semiconductors |
| TGbf | 3/27 | Wilhelmsson, Leif | Ericsson AB |

### Thursday, April 6, 2023, 11:00pm - 01:00am (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0561-01-00bf-tgbf-meeting-agenda-2023-04.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 Han, calls the meeting to order at 11:04 pm ET (28 persons are on the call after 1 hour 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 question on the agenda.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 18).
2. The chair presents slide 19, Call for contributions.
3. The chair presents the teleconference times (slide 20). The chair also goes through the status of D1.0 CR status (slide 21).
4. Presentation of submission:

Claudio gives an update of the comment resolutions and expresses that there has been very good progress. It is noted that the queue is quite long and it may be a good idea to have an ad-hoc meeting before the May f2f. Claudio asks people who have comments to resolve, to provided how much time they believe they need.

Q: Is there a target time for when the comments should be resolved?

A: According to the timeline, we are targeting to generate D2.0 out of the July meeting.

Claudio also points at the 802.11 Style Guide 11-09/1034r2 and reminds the group to follow this in order to avoid additional comments later on. Claudio also briefly goes through this document and points at some examples where D1.0 is not written according to this style guide document.

**11-23/0477r2, “Comment resolution for sensing session”, Chaoming Luo (OPPO):**

This submission resolves comments related to the concept of ‘sensing session’. The following 31 CIDs are resolved: 1330, 1976, 2295, 1668, 1058, 1346, 1445, 1007, 1447, 1861, 2232, 1799, 1975, 2233, 1035, 1029, 2234, 1914, 1862, 1708, 2236, 1008, 1774, 2238, 1527, 2235, 2237, 1847, 1848, 1086, 1036.

This is a continuation of the presentation that started in the last tele conference. Chaoming also points out that the document has been updated based on offline discussions.

CIDs 1330, 1976, 2295, 1668, 1058, 1346, 1445, 1007, 1447, 1861, 2232, 1799, 1975, 2233, 1035, 1029, 2234, 1914, 1862, 1708, 2236, 1008, 1774, 2238, 1527, 2235, 2237, 1847, 1848, 1086, and 1036:

Some clarifying discussion related to whether there should be normative text in one of the notes.

Some clarifying discussion related to whether what discussed here also is also applicable to the DMG part.

Chaoming will update the document based on the received comments before running the SP.

**11-23/0515r1, “Comment Resolution in LB272 for Reporting CID (Part 2)”, Anirud Sahoo (NIST):** This document resolves comment in LB272 with CID 1147, 1156.

Revision 0 of this documents has been presented and Anirud goes thought the updates that have been made.

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

Unanimously supported.

**11-23/0514r1, “Comment Resolution in LB272 for Reporting CID (Part 1)”, Anirud Sahoo (NIST):** This document resolves comment in LB272 with CID 1789, 1074, 1002, 1077.

CID 1789: No discussion.

CID 1074: Some clarifying discussion related to terminology.

CIDs 1002 and 1077: A comment related to that the word “size” is no used elsewhere and we should not use it here to be consistent.

Anirud explains that he will update the document based on the received feedback.

**11-23/0511r1, “Proposed resolutions for editorial comments on D1.0 - Part 2”, Claudio da Silva (Meta):** This document contains proposed resolutions for editorial comments on D1.0 (LB272). The text used as reference is D1.0. CID 2098 has been added compared to r0.

CIDs: 1973, 1980, 1510, 2200, 1039, 2098, 1124, 1602, 1018, 1019, 1313, 1677, 1630, 1838, 2094, 1678, 1632, 1839, 1633, 1907, 1840, 2187, 1631, 2095, 1981

CID 1973: Some clarifying discussion.

CID 1980: Some clarifying discussion.

Run out of time.

1. The chair asks if there is any other business. No response from the group.
2. The meeting is adjourned without objection at 01:01 am.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 4/6 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 4/6 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 4/6 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 4/6 | Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. |
| TGbf | 4/6 | Lim, Dong Guk | LG ELECTRONICS |
| TGbf | 4/6 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 4/6 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 4/6 | Wei, Dong | NXP Semiconductors |
| TGbf | 4/6 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 4/6 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |

### Tuesday, April 11, 2023, 10:00am - 12:00pm (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0561-03-00bf-tgbf-meeting-agenda-2023-03.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 Han, calls the meeting to order at 10:00 am ET (35 persons are on the call after 10 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 17) and asks if there are any question on the agenda.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 19).
2. The chair presents slide 20, Call for contributions.
3. The chair presents the teleconference times (slide 21). The chair also presents the D1.0 status. Claudio also gives an update of the CR situation.

Q: I suggest adding more teleconference calls, because the sessions at the f2f are not so effective because some members are not able to attend.

Q: I am of the opposite opinion. I believe the teleconferences are not very effective compared to the meetings at the f2f. I also have another suggestion, namely trying to focus the discussions so that similar presentations are treated together.

Q: If we have 3-4 calls per week, I believe we must devote different calls to different topics so that it is possible to skip some of the calls.

Some discussion about having an ad-hoc meeting in Lund, Sweden, before the Berlin f2f.

It is clarified that the alternative of having the ad-hoc at the same hotel as the f2f comes at a significant cost and also that Jon probably would have needed this information earlier in order to make such arrangements with the hotel.

1. Presentation of submission:

**11-23/0477r3, “Comment resolution for sensing session”, Chaoming Luo (OPPO):**

This submission resolves comments related to the concept of ‘sensing session’. The following 31 CIDs are resolved: 1330, 1976, 2295, 1668, 1058, 1346, 1445, 1007, 1447, 1861, 2232, 1799, 1975, 2233, 1035, 1029, 2234, 1914, 1862, 1708, 2236, 1008, 1774, 2238, 1527, 2235, 2237, 1847, 1848, 1086, 1036.

Chaoming has presented r2 in a previous call and goes through the updates of this contribution that have been made based on the received feedback.

**Straw Poll:** Do you support the resolution to the following 31 CIDs and incorporate the changes into the latest TGbf draft: 1330, 1976, 2295, 1668, 1058, 1346, 1445, 1007, 1447, 1861, 2232, 1799, 1975, 2233, 1035, 1029, 2234, 1914, 1862, 1708, 2236, 1008, 1774, 2238, 1527, 2235, 2237, 1847, 1848, 1086, 1036, in 11-23/0477r3.

**Unanimously supported.**

**11-23/0514r2, “Comment Resolution in LB272 for Reporting CID (Part 1)”, Anirud Sahoo (NIST):** This document resolves comment in LB272 with CID 1789, 1074, 1002, 1077.

Anirud presented this in a previous call and goes through the updates made compared to the previous revision.

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

**Unanimously supported.**

**11-23/0511r2, “Proposed resolutions for editorial comments on D1.0 - Part 2”, Claudio da Silva (Meta):** This document contains proposed resolutions for editorial comments on D1.0 (LB272). The text used as reference is D1.0. CID 2098 has been added compared to r0.

CIDs: 1973, 1980, 1510, 2200, 1039, 2098, 1124, 1602, 1018, 1019, 1313, 1677, 1630, 1838, 2094, 1678, 1632, 1839, 1633, 1907, 1840, 2187, 1631, 2095, 1981

Claudio goes through in detail the proposed resolutions to CIDs 1973 and 1980.

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

**Unanimously supported.**

**11-23/0553r3, “LB272 Comment Resolution for INSTANCE category”, Ali Raissinia (Qualcomm):** This document proposes resolutions for CID 1041,1284, 1771, 1931, 1949, 2048 and 2125.

CID 1041: No discussion.

CID 1284: Some clarifying discussion.

CID 1771: Some clarifying discussion.

CID 1931: No discussion.

CID 1949: No discussion.

CID 2048: No discussion.

CID 2125: No discussion.

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

**Unanimously supported.**

**11-23/0554r3, “LB272 Comment Resolution for OST category”, Ali Raissinia (Qualcomm):** This document proposes resolutions for CID 1707 and 1757:

CID 1707: Some clarifying discussion. Based on feedback the proposed resolution is changed to revised.

CID 1757: Run out of time.

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

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 4/11 | Aygul, Mehmet | VESTEL; IMU |
| TGbf | 4/11 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 4/11 | Carney, William | Sony Group Corporation |
| TGbf | 4/11 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbf | 4/11 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 4/11 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 4/11 | feng, Shuling | MediaTek Inc. |
| TGbf | 4/11 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 4/11 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 4/11 | Kasher, Assaf | Qualcomm Incorporated |
| TGbf | 4/11 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 4/11 | Lim, Dong Guk | LG ELECTRONICS |
| TGbf | 4/11 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 4/11 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 4/11 | Ozbakis, Basak | Vestel Electronics Corp. |
| TGbf | 4/11 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 4/11 | Sahoo, Anirudha | National Institute of Standards and Technology |
| TGbf | 4/11 | Sand, Stephan | German Aerospace Center (DLR) |
| TGbf | 4/11 | Sosack, Robert | Molex Incorporated |
| TGbf | 4/11 | Tang, Zhuqing | Huawei Technologies Co., Ltd |
| TGbf | 4/11 | Wang, Pu | Mitsubishi Electric Research Labs (MERL) |
| TGbf | 4/11 | Wei, Dong | NXP Semiconductors |
| TGbf | 4/11 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 4/11 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbf | 4/11 | Zhang, Jiayi | Ofinno |
| TGbf | 4/11 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

### Thursday, April 13, 2023, 11:00pm - 01:00am (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0561-05-00bf-tgbf-meeting-agenda-2023-04.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 Han, calls the meeting to order at 11:00 pm ET (32 persons are on the call after 30 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 18) and asks if there are any question on the agenda.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 20).
2. The chair presents slide 21, Call for contributions.
3. The chair presents the teleconference times (slide 22). The chair explains that he plans to request motions for an upcoming teleconference, either on April 25 or one of the following ones. The chair also goes through the updated status of D1.0 CR status (slides 21 and 22).

**Straw Poll:** If we have a 2 or 3 days ad-hoc meeting on during July 6, 7, 8, 2023, in the Ericsson Office, Lund, Sweden for the purpose of TGbf comment resolution and consideration of document submissions, please choose:

* + Attend in person
  + Attend online
  + Do not support Ad-hoc meeting
  + Abstain

**Result:** in person/online/do not support/abstain: 8/11/2/4

1. Presentation of submission:

**11-23/0554r3, “LB272 Comment Resolution for OST category”, Ali Raissinia (Qualcomm):** This document proposes resolutions for CID 1707 and 1757. Ali started to present in the previous teleconference but ran out of time.

CID 1707: Last time it was suggested to accept the proposed comment, but this has after some offline discussions been changed to revised. Some clarifying discussion.

CID 1757: Some clarifying discussion, and the text is slightly updated based on feedback from the group.

**Straw Poll:** Do you agree with the resolution for CID 1757 in the document 11-23-0554?

**Result:** Unanimously supported.

**11-23/0555r2, “Resolutions for frame and protocol”, Xiandong Dong (Xiaomi):** This submission proposes resolutions to editorial comments submitted in LB272. The text used as reference D1.0. CIDs: 1286, 2151, 2254, 2288, 2297 (5 CIDs)

CID 1286: No discussion.

CID 2151: Some clarifying discussion. The text in the contribution is updated based on feedback from the group.

CID 2254: No discussion.

CID 2288: No discussion.

CID 2297: No discussion.

Xiandong explains that he will have some offline discussion.

**11-23/0556r1, “Resolutions for Editorial Comments in LB272 for the reporting part”, Xiandong Dong (Xiaomi):** This submission proposes resolutions to editorial comments submitted in LB272. The text used as reference D1.0. CIDs: 1144, 1145, 1382, 1670, 1735, 1874, 1917, 1943, 1982 (10 CIDs)

CID 1144: Some clarifying discussion.

CID 1145: No discussion

CID 1382: Some clarifying discussion.

CID 1670: Some clarifying discussion.

CID 1735: Some clarifying discussion.

CID 1874: No discussion.

CID 1917: Some discussion after which it is agreed that there are issues with the sentence and it is agreed to remove this CID and let Claudio handle it.

CID 1943: The issue has been addressed in another resolution of another CID and therefore this CID is removed from the document. It is reassigned to Claudio.

CID 1982: It is agreed to transfer this CID to another document (Mengshi).

**Straw Poll:** Do you support the proposed resolutions in r2 of this contribution?

**Result:** Unanimously supported.

**11-23/0557r0, “Comment Resolution in LB272 for OST CID (Part 1)”, Anirud Sahoo (NIST):** This document resolves comments in LB272 with CIDs 1066, 1067, 1068 and 1069.

CID 1066: Some clarifying discussion.

CID 1067: Some clarifying discussion.

CID 1068: Some clarifying discussion.

CID 1069: Some clarifying discussion.

Anirud proposes to remove CID 1068 from this document and run a SP for the remaining CIDs

**Straw Poll:** Do you support the proposed resolutions in this contribution, with CID 1068 removed?

**Result:** Unanimously supported.

1. The chair asks if there is any other business. No response from the group.
2. The meeting is adjourned without objection at 00:56 am.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 4/13 | Bao, Zhanjing | TCL |
| TGbf | 4/13 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 4/13 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbf | 4/13 | Chitrakar, Rojan | Huawei International Pte Ltd |
| TGbf | 4/13 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 4/13 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 4/13 | Eitan, Alecsander | Qualcomm Technologies, Inc. |
| TGbf | 4/13 | feng, Shuling | MediaTek Inc. |
| TGbf | 4/13 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 4/13 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 4/13 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 4/13 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 4/13 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 4/13 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 4/13 | Sahoo, Anirudha | National Institute of Standards and Technology |
| TGbf | 4/13 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbf | 4/13 | Tang, Zhuqing | Huawei Technologies Co., Ltd |
| TGbf | 4/13 | Wei, Dong | NXP Semiconductors |
| TGbf | 4/13 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 4/13 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

### Tuesday, April 18, 2023, 10:00am - 12:00pm (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0561-07-00bf-tgbf-meeting-agenda-2023-04.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 Han, calls the meeting to order at 10:01 am ET (37 persons are on the call after 30 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 19) and asks if there are any question on the agenda. No response from the group.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 21).
2. The chair presents slide 22, Call for contributions.
3. The chair presents the teleconference times (slide 23). The chair also goes through the updated status of D1.0 CR status (slide 24) and announces that motions will be conducted on April 25.
4. Presentation of submission:

**11-23/0555r3, “Resolutions for frame and protocol”, Xiandong Dong (Xiaomi):** This submission proposes resolutions to editorial comments submitted in LB272. The text used as reference D1.0. CIDs: 1286, 2151, 2254, 2288, 2297 (5 CIDs)

Revision 2 of the contribution has been presented and Xiandong presents the updates that have been made to CIDs 1286 and 2151.

CID 1286: No discussion.

CID 2151: Quite long discussion regarding how many measurements can be done in one availability window. As a result, this CID is removed from the set of CIDs that are straw polled as ready for motion.

**Straw Poll:** Do you support the resolution to the following 4 CIDs and to incorporate the changes proposed in IEEE 802.11-23/0555r4 to the latest 11bf draft for the following CIDs: 1286 ~~2151~~ 2254 2288 2297?

**Result:** Unanimously supported.

**11-23/0525r0, “LB272 Resolutions for Sensing Capabilities discovery”, Pei Zhou (OPPO)**

This submission proposes resolutions to the following LB272 CIDs.

* 1004, 1005, 1028, 1079, 1080, 1332, 1430, 1446, 1860, 1912, 1995, 2231.

The text used as reference is 802.11bf D1.0.

CIDs 1004, 1005, 1028, 1079, 1080, 1332, 1430, 1446, 1860, 1912, 1995, 2231: Some clarifying discussion.

**Straw Poll**: Move to approve resolutions to CIDs 1004, 1005, 1028, 1079, 1080, 1332, 1430, 1446, 1860, 1912, 1995, 2331, as specified in doc.: 11-23/0525r0 and incorporate the text changes into the latest TGbf draft.

**Result:** Unanimously supported.

**11-23/0526r1, “LB272 Resolutions for CID 1951 and 1979”, Pei Zhou (OPPO):**

This submission proposes resolutions to the following LB272 CIDs:

* 1951, 1979.

The text used as reference is 802.11bf D1.0.

CID 1951: Based on feedback from the group the proposed resolution is updated.

CID 1979: No discussion.

It is agreed to have more discussions off-line to update the text related to CR 1951.

**11-23/0527r1, “LB272 Resolutions for MS Termination”, Pei Zhou (OPPO):** This submission proposes resolutions to the following LB272 CIDs.

* 1163, 1164, 1166, 1167, 1168, 1503, 1672, 1745, 1746, 1747, 1922, 1923, 2004, 2208, 2212.

The text used as reference is 802.11bf D1.0.

CID 1922: No discussion.

CID 1163: No discussion.

CID 1164: No discussion.

CID 1166: Based on feedback from Claudio, the CID is deferred.

CID 1745,2212,1167,1503,1746,1923,2004,2208: No discussion.

CID 1168: No discussion.

CID 1747: No discussion.

**Straw Poll:** Move to approve resolutions to CIDs 1163, 1164, ~~1166,~~ 1167, 1168, 1503, *1672*, 1745, 1746, 1747, 1922, 1923, 2004, 2208, 2212, as specified in doc.: 11-23/0527r2 and incorporate the text changes into the latest TGbf draft.

**Result:** Unanimously supported.

**11-23/0512r1, “Clause 6.3 new format”, Narengerile (Huawei):** This contribution presents a top level overview of the most significant changes to 11bf D1.0 Clause 6, to align with the new format used in the baseline (i.e., 802.11 REVme D2.1). The contribution also presents the plan to resolve all 82 comments under the topic of “MLME” for LB272 [2]. The goal is to convert the current subclause 6.3 in 11bf D1.0 to subclause 6.4 and 6.5 using the same format as in REVme D2.1.

1. The chair asks if there is any other business. It is pointed out that in document 527, the resolution for CID 1672 is actually missing, although it is stated that it is addressed. CID is also included in the SP. It is agreed that Pei will get some time in the next call to take care of this.
2. The meeting is adjourned without objection at 12:04 pm.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 4/18 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 4/18 | Carney, William | Sony Group Corporation |
| TGbf | 4/18 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbf | 4/18 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 4/18 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 4/18 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 4/18 | Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. |
| TGbf | 4/18 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 4/18 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 4/18 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 4/18 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 4/18 | Ozbakis, Basak | Vestel Electronics Corp. |
| TGbf | 4/18 | Sahoo, Anirudha | National Institute of Standards and Technology |
| TGbf | 4/18 | Sand, Stephan | German Aerospace Center (DLR) |
| TGbf | 4/18 | Schweizer, Benedikt | Apple Inc. |
| TGbf | 4/18 | Sosack, Robert | Molex Incorporated |
| TGbf | 4/18 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbf | 4/18 | Tang, Zhuqing | Huawei Technologies Co., Ltd |
| TGbf | 4/18 | Wang, Chao Chun | MediaTek Inc. |
| TGbf | 4/18 | Wang, Pu | Mitsubishi Electric Research Labs (MERL) |
| TGbf | 4/18 | Wei, Dong | NXP Semiconductors |
| TGbf | 4/18 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 4/18 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbf | 4/18 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

### Thursday, April 20, 2023, 11:00pm - 01:00am (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0561-08-00bf-tgbf-meeting-agenda-2023-04.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 Han, calls the meeting to order at 11:00pm ET (33 persons are on the call after 30 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 20) and asks if there are any question on the agenda. Xiandong explains that he has uploaded a new revision of document 555 and would like to add this to the agenda. Naren explains she would like to swap her two presentations.

The chair asks if there is any objection to approve the modified agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 22).
2. The chair presents slide 23, Call for contributions.
3. The chair presents the teleconference times (slide 24). The chair also goes through the updated status of D1.0 CR status (slides 25 and 26) and announces that motions will be conducted on April 25.

Leif presents information related to a potential ad-hoc meeting in Lund in July. The information can be found in document 11-22/0664r0.

1. Presentation of submission:

**11-23/0526r2, “LB272 Resolutions for CID 1951 and 1979”, Pei Zhou (OPPO):**

This submission proposes resolutions to the following LB272 CIDs:

* 1951, 1979.

The text used as reference is 802.11bf D1.0.

Revision 1 of this document was presented in the last call, and Pei goes through the updates that have been made.

**Straw Poll:** Move to approve resolutions to CID 1951 and 1979, as specified in doc.: 11-23/0526r2 and incorporate the text changes into the latest TGbf draft.

**Result:** Unanimously supported

**11-23/0527r3, “LB272 Resolutions for MS Termination”, Pei Zhou (OPPO):** This submission proposes resolutions to the following LB272 CIDs.

* 1163, 1164, 1166, 1167, 1168, 1503, 1672, 1745, 1746, 1747, 1922, 1923, 2004, 2208, 2212.

The text used as reference is 802.11bf D1.0.

Presented last time, but one CID was missed. Also, one other resolution is updated based on offline discussions with the Technical Editor.

**Straw Poll:** Move to approve resolutions to CIDs 1163, 1164, 1166, 1167, 1168, 1503, 1672, 1745, 1746, 1747, 1922, 1923, 2004, 2208, 2212, as specified in doc.: 11-23/0527r3 and incorporate the text changes into the latest TGbf draft.

**Result:** Unanimously supported.

**11-23/0555r6, “Resolutions for frame and protocol”, Xiandong Dong (Xiaomi):** This submission proposes resolutions to editorial comments submitted in LB272. The text used as reference D1.0. CIDs: 1286, 2151, 2254, 2288, 2297 (5 CIDs).

2151 was deferred in the last call, and Xiandong presents the updates that have been made for this CID.

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

**Straw Poll:** Do you support the resolution to the following 5 CIDs and to incorporate the changes proposed in IEEE 802.11-23/0555r7 to the latest 11bf draft for the following CIDs: 1286 2151 2254 2288 2297?

**Result:** Unanimously supported.

**11-23/0478r2, “LB272 comments reporting comments resolution”, Rui Du (Huawei):**

This submission contains the proposed comment resolutions for the CIDs 1647, 2172, 2271, 1161, 1162, 2148, and 1785.

CIDs 1647, 2172, 2271: Some clarifying with respect what is updated in the equation.

CIDs 1161, 1162, 2148, 1785:

Q: I believe CID 2148 should actually be another number.

Claudio confirms this and informs that the correct number is 2047.

It is pointed out that there is another related CID and with corresponding resolution, and these should be aligned.

Therefore, it is decided to do more work offline before running the SP.

**11-23/0528r0, “**LB272 Resolutions for MS Termination frame**”, Pei Zhou (OPPO):**

This submission proposes resolutions to the following LB272 CIDs.

* + 1283, 2102, 2278, 1701.

The text used as reference is 802.11bf D1.0.

CID 1701: Q: I prefer Option 2. Some clarifying discussion.

**Straw Poll:** Which option do you prefer when AP terminates measurement setup(s) in non-TB case.

* Option 1: Do not add a Protected Sensing Measurement Termination frame with no-ACK as one of the Protected Sensing (i.e., category 38) action frame, just use implicit termination procedure if AP wants to terminate measurement setup(s) in non-TB case.
* Option 2: Add a Protected Sensing Measurement Termination frame with no-ACK as one of the Protected Sensing (i.e., category 38) action frame, AP may transmit this frame to explicitly terminate measurement setup(s) in non-TB case.

**Result:** Option1/Option 2/Abstain: 5/10/11

CID 2278: No discussion.

CID 2102: Some clarifying discussion. It is also pointed out that a note cannot be normative and therefore the word “shall” should not be used. After some discussion it is decided to change the resolution to rejected.

CID 1283: After some discussion it is agreed to defer this CID.

It is agreed to defer the SP for this document.

**11-23/0538r0, “LB272 CR for Sensing Terminologies”, Zinan Lin (InterDigital):** This submission presents proposed resolutions for the following 14 CIDs: 1023, 1024, 1032, 1327, 1328, 1329, 1339, 1676, 1821, 1822, 1853,1884,1899,2259. The proposed changes are based on 802.11bf/D1.0

CIDs 1023, 1024, 1032, 1327, 1328, 1329, 1339, 1676, 1821, 1822, 1853, 1884, 1899, 2259

Some brief clarifying discussion.

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

**Result:** Unanimously supported.

**11-23/0625r0, “New Clause 6 Draft Text”, Narengerile (Huawei):** Naren starts to go through the document, which is related to contribution 11-23/0512r1, which was presented in the last session.

Run out of time. Naren asks to be allocated some time also in the next teleconference.

1. The chair asks if there is any other business. No response from the group
2. The meeting is adjourned without objection at 01:00am.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 4/20 | Bao, Zhanjing | TCL |
| TGbf | 4/20 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 4/20 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbf | 4/20 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 4/20 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 4/20 | Du, Rui | Huawei Technologies Co., Ltd |
| TGbf | 4/20 | Eitan, Alecsander | Qualcomm Technologies, Inc. |
| TGbf | 4/20 | feng, Shuling | MediaTek Inc. |
| TGbf | 4/20 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 4/20 | Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. |
| TGbf | 4/20 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 4/20 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 4/20 | Lim, Dong Guk | LG ELECTRONICS |
| TGbf | 4/20 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 4/20 | Sahoo, Anirudha | National Institute of Standards and Technology |
| TGbf | 4/20 | Shirakawa, Atsushi | SHARP CORPORATION |
| TGbf | 4/20 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbf | 4/20 | Tang, Zhuqing | Huawei Technologies Co., Ltd |
| TGbf | 4/20 | Wei, Dong | NXP Semiconductors |
| TGbf | 4/20 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 4/20 | Yang, Jimmy | Moxa Inc. |
| TGbf | 4/20 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbf | 4/20 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

### Monday, April 24, 2023, 10:00am - 12:00pm (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0561-10-00bf-tgbf-meeting-agenda-2023-04.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 Han, calls the meeting to order at 10:01 am ET (29 persons are on the call after 30 minutes of the meeting).
10. The chair goes through “Meeting Protocol, Attendance, Voting & Documentation Status” (slide 4), “Participants have a duty to inform the IEEE” (slide 6), and “Ways to inform IEEE” (slide 7).

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

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

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

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 23).
2. The chair presents slide 24, Call for contributions.
3. The chair presents the teleconference times (slide 25). The chair also goes through the updated status of D1.0 CR status (slide 27) and announces that motions will be conducted in the teleconference tomorrow.
4. Presentation of submission:

**11-23/0478r3, “LB272 comments reporting comments resolution”, Rui Du (Huawei):**

This submission contains the proposed comment resolutions for the CIDs 1647, 2172, 2271, 1161, 1162, ~~2148~~2047, and 1785.

Revision 2 of this contribution was presented in the last teleconference and Rui goes through the updated that have been made.

The CID number for one of the CIDs has been corrected from 2148 to 2047.

Some clarifying discussion whether to explicitly state the number of bits in the text or only refer to the figures where it is defined. After some discussion in the group, it is agreed to delete the number of bits in the text. It is agreed that Claudio can fix this and there is no need to update the document to a new revision.

**Straw Poll:** Do you support resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 1647, 2172, 2271, 2143, 1161, 1162, 2047, and 1785 in 11-23/0478r3?

**Result:** Unanimously supported.

**11-23/0528r1, “**LB272 Resolutions for MS Termination frame” **Pei Zhou (OPPO):**

This submission proposes resolutions to the following LB272 CIDs.

* + 1283, 2102, 2278, 1701.

The text used as reference is 802.11bf D1.0.

**Straw Poll:** Move to approve resolutions to CIDs 1283, 2102, 2278, 1701,

as specified in doc.: 11-23/0528r1 and incorporate the text changes into the latest TGbf draft.

**Results:** Unanimously supported.

**11-23/0474r1, “LB 272 CR for CIDs on Sensing Measurement Setup – Part 1” Mahmoud Kamel (InterDigital):** This submission proposes resolutions for19 CIDs (1009, 1534, 1996, 2239, 1101, 1282, 1496, 1560, 1103, 1548, 1549, 2109, 1105, 1106, 1428, 1429,1550, 1551, 1863) in subclause 11.55.1.4 in P802.11bf D1.0:

CIDs 1101, 1560, 1282, 1496: Some clarifying discussion.

CIDs 1105, 1106, 1428, 1429, 1550, 1551, 1863: Some clarifying discussion related to whether it is correct to replace “shall be” to “are”. As a consequence the text is changed so that the statement is put as a note.

**Straw Poll:** Do you support the proposed resolutions in revision 2 of this document?

**Results:** Unanimously supported.

**11-23/0625r1, “New Clause 6 Draft Text”, Narengerile (Huawei):**

This document contains proposed Clause 6 text necessary for the IEEE P802.11bf amendment to confirm to the new format specified for this clause in IEEE P802.11-REVme/D2.1 and subsequent revisions.

This document implements the discussion in 23/0512r1.

Naren started to present r0 of this contribution in the last conference call, but ran out of time.

Some clarifying discussion with respect to the figure on page 9 in 11-23/0512r1.

After finishing the presentation, Naren explains she wants to update the document before running the SP.

**Straw Poll:** Do you support to incorporate the changes in 0625r1 in the latest TGbf draft?

**Results:** Unanimously supported.

**11-23/0563r1, “LB272-DMG-CIDs-v3”, Assaf Kasher (Qualcomm):** This document proposes resolution to several LB272 DMG related CIDs.

The list of CIDs is: 1224, 1054, 1851, 2106, 2174, 2175, 2177, 1367, 1368, 2214, 2093, 2180, 2091, 1411, 1371, 1372, 1373, 1682, 1378, 1374

CID 1224: After some discussion, this CID is removed from the document as the proposed resolution may conflict with resolutions of other CIDs.

CID 1054: No discussion.

CID 1851: No discussion.

CID 2106: No discussion.

CID 2174: No discussion.

CID 2175: No discussion.

CID 2177: No discussion.

CID 1367: No discussion.

CID 1368: Some clarifying discussion.

CID 2214: A minor typo corrected.

CID 2093: No discussion.

CID 2180: No discussion.

CID 2091: No discussion.

CID 1411: No discussion.

CID 1371: No discussion.

CID 1372: No discussion.

CID 1373: Minor typo corrected.

CID 1682: No discussion.

CID 1378: Some clarifying discussion.

CID 1374: No discussion.

Because the document needs to be slightly updated, Assaf requests to defer the SP and instead run it tomorrow.

**11-23/0607r0, “Proposed resolutions for editorial comments on D1.0 - Part 3”, Claudio da Silva (Meta Platforms):** This document contains proposed resolutions for editorial comments on D1.0 (LB272). The text used as reference is D1.0.

CIDs: 1092, 1093, 1094, 1095, 1096, 2021, 1991, 1992, 2118, 1532, 1020, 1173, 1803, 1449, 1495, 1502, 1756, 1998, 1994, 1311, 2253, 1731, 1585, 2145

CID 1092: No discussion.

CID 1093: No discussion.

CID 1094: No discussion.

Run out of time.

1. The chair asks if there is any other business. No response from the group
2. The meeting is adjourned without objection at 11:59am.

**List of Attendees:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |  |
| TGbf | 4/24 | Beg, Chris | Cognitive Systems Corp. |  |
| TGbf | 4/24 | Dong, Xiandong | Xiaomi Inc. |  |
| TGbf | 4/24 | Eitan, Alecsander | Qualcomm Technologies, Inc. |  |
| TGbf | 4/24 | feng, Shuling | MediaTek Inc. |  |
| TGbf | 4/24 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | |
| TGbf | 4/24 | Kamel, Mahmoud | InterDigital, Inc. |  |
| TGbf | 4/24 | Kim, Sang Gook | LG ELECTRONICS |  |
| TGbf | 4/24 | Lim, Dong Guk | LG ELECTRONICS |  |
| TGbf | 4/24 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. | |
| TGbf | 4/24 | McCann, Stephen | Huawei Technologies Co., Ltd |  |
| TGbf | 4/24 | Minayi Jalil, Amir | Aerial Technologies |  |
| TGbf | 4/24 | narengerile, narengerile | Huawei Technologies Co., Ltd |  |
| TGbf | 4/24 | Sahoo, Anirudha | National Institute of Standards and Technology | |
| TGbf | 4/24 | Sand, Stephan | German Aerospace Center (DLR) |  |
| TGbf | 4/24 | Sosack, Robert | Molex Incorporated |  |
| TGbf | 4/24 | Tang, Zhuqing | Huawei Technologies Co., Ltd |  |
| TGbf | 4/24 | Wei, Dong | NXP Semiconductors |  |
| TGbf | 4/24 | Wilhelmsson, Leif | Ericsson AB |  |
| TGbf | 4/24 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd | |

### Tuesday, April 25, 2023, 10:00am - 12:00pm (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0561-11-00bf-tgbf-meeting-agenda-2023-04.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. Motions (270-282)
8. Any other business
9. Adjourn
10. The chair, Tony Han, calls the meeting to order at 10:00 am ET (36 persons are on the call after 30 minutes of the meeting).
11. 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 22) and asks if there are any question on the agenda. Claudio asks to be allocated some time after the motions to give a status update.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 24).
2. The chair presents slide 25, Call for contributions.
3. The chair presents the teleconference times (slide 26).
4. Motions:

**Motion 270:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1082, 1083, 1526, 1555, 1556, 1702, 1844, 1341, 1501,
  + as specified in document 11-23/0476r3

**Move:** Chaoming Luo

**Second:** Pei Zhou

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-23/0476r3
  + SP Result: Unanimous consent

**Motion 271:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1478, 1479, 2263, 2265,
  + as specified in document 11-23/0508r3

**Move:** Chaoming Luo

**Second:** Pei Zhou

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-23/0508r3
  + SP Result: Unanimous consent

**Motion 272:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1031, 1174, 1209, 1408 and 1409,
  + as specified in document 11-23/0505r1

**Move:** Alecsander Eitan

**Second:** Kevin Tsunghan Tsai

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-23/0505r1
  + SP Result: Unanimous consent

**Motion 273:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1306, 1307, 1308, 1309, 1310, 1324 and 1325,
  + as specified in document 11-23/0506r1

**Move:** Alecsander Eitan

**Second:** Assaf Kasher

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 11-23/0506r1
* SP Result: Unanimous consent

**Motion 274:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CID 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1206, 1207, 1208, 1075, 1507, 1859, 1888, 1521, 1683, 1910, 1993, 1076, 1264, 1508, 1522, 1889, 1911, 1509, 1607, 1916, 2001, 2220, 1684, 1240, 1131, 1135, 1139, 1143, 1146, 1157, 1253, 1255, 1256, 1259, 1257, 1169, 1876, 2116, 1582, 1583, 1875, 2179, 2112, 1125, 1129, 1379, 1867, 1614, 2203, 2073, 1837, 1835, 1836, 1413, 1444, 1823, 1693, 1959, 1116, 1872, 1588, 2154, 1915, 1531, 2201, 1725, 1010, 1559, 1085, 1104, 1734, 2114, 2115, 1498, 1506, 1634, 1596, 1260, 1252, 1261, 1254, 1590, 2117, 2138, 1887, 2268, 1546, 2198, 1603, 1920, 1117, 1034, 1698, 1078, 1913, 1600, 2197, 1132, 1133, 1669, 1137, 1140, 1918, 2043, 2157, 1921, 1852, 1244, 1545, 1650, 1247, 1628, 2067, 1414, 1832, 2142, 1170, 1609, 2167, 2033
* as specified in document 23/0510r0.

**Move:** Claudio Da Silva

**Second:** Stephen McCann

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0510r0
* SP Result: Unanimous consent

**Motion 275:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CID 1147, 1156
* as specified in 23/0515r1

**Move:** Anirudha Sahoo

**Second:** Chris Beg

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0515r1
* SP Result: Unanimous consent

**Motion 276:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1973, 1980, 1510, 2200, 1039, 2098, 1124, 1602, 1018, 1019, 1313, 1677, 1630, 1838, 2094, 1678, 1632, 1839, 1633, 1907, 1840, 2187, 1631, 2095, 1981
  + as specified in document 23/0511r3.

**Move: Claudio Da Silva**

**Second: Dongguk Lim**

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 23/0511r3
  + SP Result: Unanimous consent

**Motion 277:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1041, 1284, 1771, 1931, 1949, 2048 and 2125
  + as specified in document 23/0553r3.

**Move:** Cheng Chen

**Second:** Assaf Kasher

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 23/0553r3
  + SP Result: Unanimous consent

**Motion 278:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1789, 1074, 1002, 1077
  + as specified in 23/0514r2

**Move:** Anirudha Sahoo

**Second:** Chris Beg

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 23/0514r2
  + SP Result: Unanimous consent

**Motion 279:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1330, 1976, 2295, 1668, 1058, 1346, 1445, 1007, 1447, 1861, 2232, 1799, 1975, 2233, 1035, 1029, 2234, 1914, 1862, 1708, 2236, 1008, 1774, 2238, 1527, 2235, 2237, 1847, 1848, 1086, 1036
  + as specified in 11-23/0477r3

**Move:** Chaoming Luo

**Second:** Pei Zhou

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 11-23/0477r3
  + SP Result: Unanimous consent

**Motion 280:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1757
  + as specified in document 23/0554r3

**Move:** Cheng Chen

**Second:** Stephen McCann

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 23/0554r3
* SP Result: Unanimous consent

**Motion 281:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1144 1145 1382 1670  1874
  + as specified in document 23/0556r3.

**Move:** Xiandong Dong

**Second**: Chris Beg

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 23/0556r3
  + SP Result: Unanimous consent

**Motion 282:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CID 1066, 1067, and 1069
  + as specified in 23/0557r1

**Move:** Anirudha Sahoo

**Second:** Assaf Kasher

**Result:** Motion passed by unanimous consent

**Note：**

* + Related document 23/0557r1
  + SP Result: Unanimous consent

1. Presentation of submission:

**11-23/0470r5, “”, Claudio da Silva (Meta Platforms):** Claudio gives a status update of the implementation of the resolved comments. Claudio also goes through and emphasizes the changes that have been made to the terminology.

**11-23/0563r2, “LB272-DMG-CIDs-v3”, Assaf Kasher (Qualcomm):** This document proposes resolution to several LB272 DMG related CIDs.

The list of CIDs is: 1224, 1054, 1851, 2106, 2174, 2175, 2177, 1367, 1368, 2214, 2093, 2180, 2091, 1411, 1371, 1372, 1373, 1682, 1378, 1374

Assaf presented r1 in the last conference call and goes through the updates that have been made in r2.

**Straw Poll:** Do you agree to the resolutions of CIDs 1224, 1054, 1851, 2106, 2174, 2175, 2177, 1367, 1368, 2214, 2093, 2180, 2091, 1411, 1371, 1372, 1373, 1682, 1378, 1374 as depicted in document 11-23-0563r2?

**Result:** Unanimously supported

**11-23/0607r0, “Proposed resolutions for editorial comments on D1.0 - Part 3”, Claudio da Silva (Meta Platforms):** This document contains proposed resolutions for editorial comments on D1.0 (LB272). The text used as reference is D1.0.

CIDs: 1092, 1093, 1094, 1095, 1096, 2021, 1991, 1992, 2118, 1532, 1020, 1173, 1803, 1449, 1495, 1502, 1756, 1998, 1994, 1311, 2253, 1731, 1585, 2145

Claudio started to present this contribution in the last conference call but ran out of time. Claudio continues where we ended in the last call.

CID 1092: No discussion.

CID 1093: No discussion.

CID 1094: No discussion.

CID 1095: No discussion.

CID 1096: No discussion.

CID 2021: No discussion.

CIDs 1991 and 1992: No discussion.

CID 2118: No discussion.

CID 1532: No discussion.

CIDs 1020 and 1173: No discussion.

CID 1803: No discussion.

CID 1449: No discussion.

CIDs 1495 and 1502: No discussion.

CID 1756: No discussion.

CID 1998: No discussion.

CID 1994: No discussion.

CID 1311: No discussion.

CID 2253: No discussion.

CID 1731: No discussion.

CID 1585: No discussion.

CID 2145: No discussion.

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

**Result:** Unanimously supported.

**11-23/0460r0, “LB272 CR for DMG CID – Part 1”, Narengerile (Huawei):** This document proposes comment resolutions for CIDs 1045, 1436, 1437, 1505, 2168, 1358, 2059, 2216, 1492, 1047, and 2173.

CIDs 1045, 1436, 1437, 1505: No discussion.

CIDs 2168, 1358, 2059: No discussion.

CIDs 2216, 1492, 1047: Some clarifying discussion.

CID 2173: No discussion.

**Straw Poll:** Do you agree to the comments resolutions provided for CIDs 1045, 1436, 1437, 1505, 2168, 1358, 2059, 2216, 1492, 1047, and 2173 to be included in the latest 11bf Draft?

**Result:** Unanimously supported.

**11-23/0641r1, “Resolutions for Instance Comments in LB272 - Part 1: Non-TB sensing measurement”, Cheng Chen (Intel):** This submission proposes resolutions to the following comments submitted in LB272 under Instance topic. The CIDs are referring to D1.0. The text used as reference is D1.0.

CIDs: 1015 1381 1482 1567 1762 2003 2204 1043 1148 1149 1150 1151 1152 1565 1566 1894 1572 1741 1742 1743 1744 1919 1960 1961 2041 2042 2291

CIDs 1015, 1381, 1482, 1567, 1762, 2003, and 2204: No discussion.

CID 1043: No discussion.

CID 1148: No discussion.

CIDs 1149 and 1150: Some clarifying discussion.

CID 1151: No discussion.

CID 1152: Some clarifying discussion.

CID 1565: No discussion.

CIDs 1566 and 1894: No discussion.

CID 1572: No discussion.

CID 1741: No discussion.

CID 1742: Some clarifying discussion.

CID 1743: No discussion.

CID 1744: Some clarifying discussion.

Run out of time.

1. The chair asks if there is any other business. No response from the group
2. The meeting is adjourned without objection at 12:00pm.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 4/25 | Aboulmagd, Osama | Huawei Technologies Co., Ltd |
| TGbf | 4/25 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 4/25 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbf | 4/25 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 4/25 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 4/25 | Eitan, Alecsander | Qualcomm Technologies, Inc. |
| TGbf | 4/25 | feng, Shuling | MediaTek Inc. |
| TGbf | 4/25 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 4/25 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 4/25 | Lim, Dong Guk | LG ELECTRONICS |
| TGbf | 4/25 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 4/25 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbf | 4/25 | Minayi Jalil, Amir | Aerial Technologies |
| TGbf | 4/25 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 4/25 | Sahoo, Anirudha | National Institute of Standards and Technology |
| TGbf | 4/25 | Sand, Stephan | German Aerospace Center (DLR) |
| TGbf | 4/25 | Sosack, Robert | Molex Incorporated |
| TGbf | 4/25 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbf | 4/25 | Tsai, Tsung-Han | MediaTek Inc. |
| TGbf | 4/25 | Wei, Dong | NXP Semiconductors |
| TGbf | 4/25 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbf | 4/25 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

### Thursday, May 4, 2023, 11:00pm - 01:00am (ET)

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/23/11-23-0712-00-00bf-tgbf-meeting-agenda-2023-05.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 Han, calls the meeting to order at 11:00 pm ET (29 persons are on the call after 10 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 question on the agenda.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 18).
2. The chair presents slide 19, Call for contributions.
3. The chair presents the teleconference times (slide 20). The chair mention that he intends to plan for 2-3 teleconferences per week after the May Interim meeting. Claudio gives an update of the CR status.
4. Presentation of submission:

**11-23/0641r2, “Resolutions for Instance Comments in LB272 - Part 1: Non-TB sensing measurement”, Cheng Chen (Intel):** This submission proposes resolutions to the following comments submitted in LB272 under Instance topic. The CIDs are referring to D1.0. The text used as reference is D1.0.

CIDs: 1015 1381 1482 1567 1762 2003 2204 1043 1148 1149 1150 1151 1152 1565 1566 1894 1572 1741 1742 1743 1744 1919 1960 1961 2041 2042 2291

CID 1744: Some clarifying discussion. The text of the resolution is slightly updated. It is decided to defer this CID.

CID 1919: No discussion.

CID 1960: No discussion.

CID 1961: No discussion.

CID 2041: No discussion.

CID 2042: No discussion.

CID 2291: Some clarifying discussion.

**Straw Poll:** With CID1744 deferred, do you support the proposed resolutions to the CIDs and incorporate the text changes into the latest TGbf draft?

**Result:** Unanimously supported.

**11-23/0642r1, “Resolutions for Instance Comments in LB272 - Part 2: TB sensing measurement”, Cheng Chen (Intel):** This submission proposes resolutions to the following comments submitted in LB272 under Instance topic. The CIDs are referring to D1.0. The text used as reference is D1.0.

CIDs: 1030 1121 1122 1123 1127 1128 2096 1130 1348 1349 1450 1504 1601 1721 1604 1722 1724 1726 1727 1760 1761 2251 1999 2025 1773 1895 1896 1897 2026 2199 1898 2024 2027 2150 2196 2152 2153 2252 2283

CID 1030: Some clarifying discussion. One of the reasons for rejection is removed, but the proposed resolution remains.

CID 1121: Some clarifying discussion. The text in the proposed resolution is slightly updated.

CIDs 1122 and 1123: Some clarifying discussion.

CID 1127: No discussion.

CIDs 1128 and 2096: No discussion.

CID 1130: Some clarifying discussion.

CID 1348: No discussion.

CID 1349: No discussion.

CID 1450: The proposed resolution is changed from rejected to revised.

CID 1504: No discussion.

CIDs 1601 and 1721: The proposed resolution is changed after some discussion.

CID 1604: Some clarifying discussion after which the CID is deferred.

CID 1722: Some clarifying discussion after which the CID is deferred.

CID 1724: Some clarifying discussion.

CID 1726: Some clarifying discussion.

CID 1727: No discussion.

CID 1760: No discussion.

CIDs 1761, 2251, 1999, 2025 and 1722: Some clarifying discussion and as a result the CIDs are deferred. Note CID 1722 has been added to this group of CIDs.

CIDs 1773, 1895, and 1896: No discussion.

CIDs 1897, 2026, 2199: No discussion.

CID 1898: No discussion.

CID 2024: No discussion.

CID 2027: No discussion.

CIDs 2150 and 2196: Some clarifying discussion.

CID 2152: No discussion.

CID 2153: No discussion.

Run out of time.

1. The chair asks if there is any other business. No response from the group
2. The meeting is adjourned without objection at 1:00am.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 5/4 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 5/4 | CHENG, yajun | Xiaomi Communications Co., Ltd. |
| TGbf | 5/4 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 5/4 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 5/4 | Eitan, Alecsander | Qualcomm Technologies, Inc. |
| TGbf | 5/4 | feng, Shuling | MediaTek Inc. |
| TGbf | 5/4 | Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. |
| TGbf | 5/4 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 5/4 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 5/4 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 5/4 | Luo, Yuanqiu | Futurewei Technologies |
| TGbf | 5/4 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 5/4 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 5/4 | Redmore, Josh | Cable Television Laboratories Inc. (CableLabs) |
| TGbf | 5/4 | Tang, Zhuqing | Huawei Technologies Co., Ltd |
| TGbf | 5/4 | Thiagarajan, Ganesan | Morse Micro |
| TGbf | 5/4 | Wang, Pu | Mitsubishi Electric Research Labs (MERL) |
| TGbf | 5/4 | Wei, Dong | NXP Semiconductors |
| TGbf | 5/4 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 5/4 | Yang, Jimmy | Moxa Inc. |
| TGbf | 5/4 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

### Monday, May 8, 2023, 10:00am - 12:00pm (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0712-01-00bf-tgbf-meeting-agenda-2023-05.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. D1.0 CR Status
7. Presentation of submissions
8. Any other business
9. Adjourn
10. The chair, Tony Han, calls the meeting to order at 10:01 am ET (32 persons are on the call after 10 minutes of the meeting).
11. 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 17) and asks if there are any question on the agenda.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 19).
2. The chair presents slide 20, Call for contributions.
3. The chair presents the teleconference times (slide 21). Tony explains that he has not received any requests until now about adding additional slots for the f2f. Tony also shows the plan for the teleconferences after the f2f and asks for feedback from the group. Based on the feedback from group members some of the proposed teleconference times are cancelled.
4. The chair goes through the updated status of D1.0 CR status (slide 24) and announces that motions will be conducted in the teleconference tomorrow.
5. Presentation of submission:

**11-23/0642r2, “Resolutions for Instance Comments in LB272 - Part 2: TB sensing measurement”, Cheng Chen (Intel):** This submission proposes resolutions to the following comments submitted in LB272 under Instance topic. The CIDs are referring to D1.0. The text used as reference is D1.0.

CIDs: 1030 1121 1122 1123 1127 1128 2096 1130 1348 1349 1450 1504 1601 1721 ~~1604~~ 1722 1724 1726 1727 1760 1761 2251 1999 2025 1773 1895 1896 1897 2026 2199 1898 2024 2027 2150 2196 2152 2153 2252 ~~2283~~

This is a continuation from the last teleconference where we ran out of time. Two of the CIDs have been removed as more time are needed for these.

Cheng goes through the updates that have been made compared to r1.

CID 2252: Some clarifying discussion and a slight update of the proposed text in the CR.

**Straw Poll:** Do you agree to the comments resolutions provided in r3 of this document.

**Result:** Unanimously supported.

**11-23/0647r0, “LB272-DMG-CIDs-set1”, Alecsander Eitan (Qualcomm):** This document proposes resolution to several LB272 CIDs: 1323, 1326, 1369, 1370, 1375, 1388, 2057, 2058 and 1410. The changes are relative to IEEE P802.11-REVme/D1.0, December 2021

CID 1323: No discussion.

CID 1326: Some clarifying discussion.

CIDs 1369, 1370, 1375, 1388, 2057, and 2058: No discussion.

CID1410: No discussion.

**Straw Poll:** Do you agree with the proposed resolutions in revision 0 of this document?

**Result:** Unanimously supported.

**11-23/0648r0, “Resolutions for CID1735&1739 in LB272”, Xiandong Dong (Xiaomi):**

This submission proposes resolutions to editorial comments submitted in LB272. The text used as reference is D1.0. CIDs: 1735 1739（2CIDs）

CIDs 1735 and 1739: Some clarifying discussion.

**Straw Poll:** Do you agree to incorporate the changes proposed in IEEE 802.11-23/0648r1 to the latest 11bf draft for the following CIDs: 1735 1739?

**Result:** Unanimously supported.

##### **11-23/0633r1, “LB272 CRs for CID 1477and 2053”, Rui Wang (Interdigital):** This submission present proposed resolutions for the following 2 CIDs: 1477, 2053

##### The proposed changes are based on 802.11bf D1.0.

CID 1477: No discussion.

CID 2053: Claudio points out that there are a few more related CIDs. Some clarifying discussion and as a result the proposed resolution is slightly updated.

**Straw Poll:** Do you agree to the proposed comment resolutions in r2 of this document?

**Result:** Unanimously supported.

**11-23/0674r0, “Comment Resolution in LB272 for OST CID (Part 2)”, Aniruda Sahoo (NIST):** This document resolves comments in LB272 with CIDs 1165, 1343, 1497, 1499, 1500, 1679, 1968.

CID 1165: Some clarifying discussion.

CID 1343: No discussion.

CID 1497: No discussion.

CIDs 1499 and 1500: No discussion.

CIDs 1679 and 1968: No discussion.

**Straw Poll:** Do you support the resolution to CIDs 1165, 1343, 1497, 1499, 1500, 1679, 1968 proposed in 11-23/0674r0 and incorporate the changes into the latest TGbf?

**Result:** Unanimously supported.

**11-23/0612r0, “LB272 Resolution for CID 1296”, Pei Zhou (OPPO):** This submission proposes resolution to LB272 CID 1296. The text used as reference is 802.11bf D1.0.

CID 1296: I believe this is a change that needs a technical contribution and cannot be introduced like this.

After some rather lengthy discussions it is decided to continue offline.

**11-23/0683r0, “Comment resolution for OST CID 1758”, Chaoming Luo (OPPO):** This submission resolves CID 1758.

CID 1758: Some clarifying discussion.

**Straw Poll:** Do you support resolutions to the following CID and incorporate the text changes into the latest TGbf draft: 1758, in 11-23/0683r0.

**Result:** Unanimously supported.

1. The chair asks if there is any other business. No response from the group.
2. The meeting is adjourned without objection at 11:56am.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 5/8 | Aygul, Mehmet | VESTEL; IMU |
| TGbf | 5/8 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 5/8 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 5/8 | feng, Shuling | MediaTek Inc. |
| TGbf | 5/8 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 5/8 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 5/8 | Kasher, Assaf | Qualcomm Incorporated |
| TGbf | 5/8 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 5/8 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 5/8 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 5/8 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 5/8 | Sahoo, Anirudha | National Institute of Standards and Technology |
| TGbf | 5/8 | Tang, Zhuqing | Huawei Technologies Co., Ltd |
| TGbf | 5/8 | Wang, Pu | Mitsubishi Electric Research Labs (MERL) |
| TGbf | 5/8 | Wei, Dong | NXP Semiconductors |
| TGbf | 5/8 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 5/8 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

### Tuesday, May 9, 2023, 10:00am - 12:00pm (ET)

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0712-02-00bf-tgbf-meeting-agenda-2023-05.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. D1.0 CR Status
7. Presentation of submissions
8. Any other business
9. Adjourn
10. The chair, Tony Han, calls the meeting to order at 10:00 am ET (40 persons are on the call after 30 minutes of the meeting).
11. 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 18) and asks if there are any question on the agenda.

The chair explains he will add some more contributions for which he has received requests. Some of the presenters ask to defer their presentations to the f2f.

The chair asks if there is any objection to approve the agenda. No response from the group. As a result, the agenda is approved.

1. The chair presents the TGbf timeline (slide 20).
2. The chair presents slide 21, Call for contributions.
3. The chair presents the teleconference times (slides 22 and 23).
4. The chair goes through the updated status of D1.0 CR status (slide 24 and 25) and announces that motions will be conducted in the teleconference tomorrow.

**Straw Poll:** If we have an 2 or 3 days ad-hoc meeting during July 6, 7 (8), 2023, in the Ericsson Office, Lund, Sweden for the purpose of TGbf comment resolution and consideration of document submissions, please choose:

* Attend in person
* Attend online
* Do not support Ad-hoc meeting
* Abstain

**Result:** Attend in person/attend online/do not support ad-hoc meeting/abstain: 5/12/2/13

1. Presentation of submissions:

**11-23/0624r0, “LB 272 CR for CIDs on Sensing Measurement Setup – Part 2”, Mahmoud Kamel (Interdigital):** This submission proposes resolutions for 14 CIDs (1108, 1431, 1533, 1713, 1811, 1119, 1599, 1120, 2111, 1535, 1536, 1537, 1538, 1715) in subclause 11.55.1.4 in P802.11bf D1.0:

CIDs 1108,1431,1533,1713 and 1811: Some clarifying discussion and a minor update of the proposed resolution.

CIDs 1119 and 1599: No discussion.

CIDs 1120 and 2111: No discussion.

CIDs 1535, 1715, 1536, 1537, and 1538: Mahmoud has prepared two options for the resolution and asks the group which one is the preferred one.

Some clarifying discussion with respect to the terminology sensing field and sensing element.

A third option is prepared based on feedback from the group.

**Straw Poll:** Which option do you prefer?

**Result:** Option 1/option 2/option 3/abstain: 2/5/7/25

As a result, option 3 is selected.

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

**Result:** Unanimously supported.

**11-23/0438r1, “LB272 comments measurement setup comments resolution part 1”, Rui Du (Huawei):** This submission contains the proposed comment resolutions for the CIDs 1909, 2147, 1070, 1344, 2148, 2062, 1072, 1073, 1809 and 1858.

R0: initial document

R1: URL and SP have been added and ‘sensing session’ in Figure 11-74a has been deleted.

CIDs 1909, 2147, and 1070: No discussion.

CIDs 1344, 2148, 2062, and 1072: Claudio proposes to remove the figure and the corresponding text referencing to it as it generates a lot of comments, and it is not required.

Some comments from the group that the examples are helpful for the understanding.

**Straw Poll:** Which option do you prefer:

* 1. Remove the figure
  2. Put the figure in an annex
  3. Keep the figure where it is

**Result:** 1/2/3/abstain: 5/10/8/6

**Straw Poll:** Do you think the figure should be horizontal or vertical?

**Result:** Vertical/Horizontal/abstain: 9/10/9

**11-23/0684r1, “LB272-DMG-CIDs-set2”, Alecsander Eitan (Qualcomm):** This document proposes resolution to several LB272 CIDs: 1322, 1420 and 2178.The changes are relative to IEEE P802.11-REVme/D1.0, December 2021

CID 1322: No discussion.

CID 1420: There is a suggestion from the group to exclude this CID as there is another related document. As a result, the CID is deferred for the time being.

CID 2178: No discussion.

**Straw Poll:** Do you agree with the proposed resolutions for CIDs 1322 and 2178 in revision 1 of this document?

**Result:** Unanimously supported.

**11-23/0529r0, “LB272 Resolutions for MS Termination MLME”, Pei Zhou (OPPO):** This submission proposes resolutions to the following LB272 CIDs.

* + 1210, 1415, 1416, 1417, 1418, 1419, 1879.

The text used as references are 802.11bf D1.0 and 11-23/0625r1.

CIDs 1879, 1416, 1415, 1417, 1418,1419, 1210: No discussion.

**Straw Poll:** Move to approve resolutions for CIDs 1210, 1415, 1416, 1417, 1418, 1419, 1879 as specified in doc.: 11-23/0529r0 and incorporate the text changes into the latest TGbf draft.

**Result:** Unanimously supported.

**11-23/0718r1, “Comment Resolution in LB272 for OST CID (Part 3)”, Anirudha Sahoo (NIST):** This document resolves comments in LB272 with CIDs 1706, 1707, 1967, 1071

CIDs 1706, 1707, 1967, and 1071: Claudio explains that he has talked to Robert Stacey and identified some issues that we need to address.

1. The chair asks if there is any other business. No response from the group
2. The meeting is adjourned without objection at 12:03pm.

**List of Attendees:**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 5/9 | Aygul, Mehmet | VESTEL; IMU |
| TGbf | 5/9 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 5/9 | Chng, Baw | BAWMAN LLC |
| TGbf | 5/9 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 5/9 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 5/9 | feng, Shuling | MediaTek Inc. |
| TGbf | 5/9 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 5/9 | Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. |
| TGbf | 5/9 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 5/9 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 5/9 | Lim, Dong Guk | LG ELECTRONICS |
| TGbf | 5/9 | Luo, Chaoming | Beijing OPPO telecommunications corp., ltd. |
| TGbf | 5/9 | Luo, Yuanqiu | Futurewei Technologies |
| TGbf | 5/9 | Minayi Jalil, Amir | Aerial Technologies |
| TGbf | 5/9 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 5/9 | Ozbakis, Basak | Vestel Electronics Corp. |
| TGbf | 5/9 | Rafique, Saira | Istanbul Medipol University; Vestel |
| TGbf | 5/9 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 5/9 | Sand, Stephan | German Aerospace Center (DLR) |
| TGbf | 5/9 | Schweizer, Benedikt | Apple Inc. |
| TGbf | 5/9 | Sosack, Robert | Molex Incorporated |
| TGbf | 5/9 | SUH, JUNG HOON | Huawei Technologies Co., Ltd |
| TGbf | 5/9 | Tang, Zhuqing | Huawei Technologies Co., Ltd |
| TGbf | 5/9 | Val, Inaki | MaxLinear, Inc. |
| TGbf | 5/9 | Wang, Pu | Mitsubishi Electric Research Labs (MERL) |
| TGbf | 5/9 | Wei, Dong | NXP Semiconductors |
| TGbf | 5/9 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 5/9 | Yang, Jimmy | Moxa Inc. |
| TGbf | 5/9 | Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| TGbf | 5/9 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |