IEEE P802.11  
Wireless LANs

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| IEEE 802.11bf - September 2022 Interim Meeting Minutes | | | | |
| Date: 2022-11-14 | | | | |
| Author(s): | | | | |
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Abstract

Rev 0: This document contains the IEEE 802.11bf September 2022 Interim meeting minutes.

Rev 1: Document updated to ease navigation using the Navigation Pane.

Rev 2: Typos related to meeting time corrected (ET replaced by HST).

### Monday, September 12, 2022, 1:30-3:30 pm (HST)

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-1287-02-00bf-tgbf-meeting-agenda-2022-09-interim.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. Approve TGbf meeting minutes
4. TGbf Timeline
5. Call for contribution
6. Teleconference Times
7. Presentation of submissions
8. Guidance for Mix mode July Plenary
9. Motion (131-141)
10. Any other business
11. Recess
12. The chair, Tony Xiao Han, calls the meeting to order at 1:35pm (33 persons are on the call after 20 minutes of the meeting, 31 persons are in the room).
13. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the September 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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

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

The chair goes through the agenda (slide 17) and asks if there are any questions or comments on the agenda. Rajat requests to add one contribution to the agenda.

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

1. **Motion: Approve TGbf meeting minutes:** Move to approve TGbf minutes of meetings and teleconferences from July 2022 meeting to today:
   * July Plenary: <https://mentor.ieee.org/802.11/dcn/22/11-22-1151-00-00bf-ieee-802-11bf-july-2022-plenary-meeting-minutes.docx>
   * Teleconferences July - September: <https://mentor.ieee.org/802.11/dcn/22/11-22-1185-16-00bf-ieee-802-11bf-teleconference-minutes-july-september-2022.docx>

**Move:** Leif Wilhelmsson

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent.

1. The Chair presents the TGbf Timeline (slide 23).
2. The Chair presents slide 24, Call for contributions.
3. The Chair presents the teleconference times (slides 25 and 26).
4. The Chair presents Guidance for Mix mode September Interim (27).
5. Motions

**Motion 131:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 273 161 432 192 616 617 618 619 274 348
* as specified in 11-22-1244r7

**Move:** Claudio da Silva

**Second:** Oscar Au

**Result:** Motion passed by unanimous consent

Note：

* Related document 22/1244r7
* SP Result: Unanimous consent

**Motion 132:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 632, 174, 566, 176, 717, 010, 117, 382, 383, 384, 134, 387, 582, 873, 135, 677
* as specified in 22/1261r3

**Move:** Claudio Da Silva

**Second:** Rajat Pushkarna

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1261r3
* SP Result: Unanimous consent

**Motion 133:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 94, 244,324, 581, 801, 802, 817, 892
* as specified in 22/1315r2

**Move:** Mahmoud Kamel

**Second:** Rajat Pushkarna

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1315r2
* SP Result: Unanimous consent

**Motion 134:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 51, 175, 203, 568, 569, 634, 635, 636, 637, 638, 639, 911
* as specified in 22/1172r3

**Move:** Pei Zhou

**Second:** Chaoming Luo

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1172r3
* SP Result: Unanimous consent

**Motion 135:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 682, 684, 226, 688, 689, 690, 41, 591, 334, 599, 267
* as specified in 22/1271r3

**Move:** Claudio Da Silva

**Second:** Oscar Au

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1271r3
* SP Result: Unanimous consent

**Motion 136:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CID - 884
* as specified in 22/1331r1

**Move:** Dongguk Lim

**Second**: Sang Kim

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1331r1
* SP Result: Unanimous consent

**Motion 137:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 694,697,698,699,700,701,704,705,706,708,712
* as specified in 22/0978r3

**Move**: Leif Wilhelmsson

**Second:** Yan Xin

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/0978r3
* SP Result: Unanimous consent

**Motion 138:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 42, 43, 44, 520, 521, 592, 337, 600
* as specified in 11-22-1337-00-00bf cc40-comments DMG comments resolution part four

**Move:** Alecsander Eitan

**Second:** Claudio da Silva

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1337r0
* SP Result: Unanimous consent

**Motion 139:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 730, 818, 413, 78, 266, 526, 79, 268, 530
* as specified in 22/1389r0

**Move:** Claudio Da Silva

**Second:** Yan Xin

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1389r0
* SP Result: Unanimous consent

**Motion 140:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 125, 863, 866, 167, 92, 195, 625
* as specified in 22/0930r4

**Move:** Chris Beg

**Second:** Rajat Pushkarna

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/0930r4
* SP Result: Unanimous consent

**Motion 141:** Move to add the following to the TGbf SFD:

* + The HE Ranging NDP and HE TB Ranging NDP formats shall be used for 802.11bf sub-7 GHz sensing when PPDU BW ≤ 160 MHz
  + The EHT sounding NDP format (including specified preamble puncturing patterns) shall be used for 802.11bf sub-7 GHz sensing when PPDU BW = 320 MHz
  + Note: which preamble puncturing patterns to be supported are TBD.

**Move:** Yan Xin

**Second:** Steve Shellhammer

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1380r0
* SP Result: 30 Yes / 7 No / 8 Abstain

1. Presentation of submissions:

**11-22/0919r7, “CC40 SPs and motions”, Claudio da Silva (Meta Platforms):** Claudio gives a status update on CRs. The group has solved slightly more than 200 comments since last f2f. 48 % of the comments resolved, but only 20% of the technical comments.

**11-22/1396r1, “Proposed Draft Text for SBP Setup”, Claudio da Silva (Meta Platforms):** This document includes proposed draft text on SBP setup that aims to resolve the following comments received in CC40: 47, 204, 276, 459, 493, 525, 573, 576, 595, 743, 81, 277

The technical content of this document is based on the two SPs in 22/1203r1 that were unanimously supported by TGbf.

Claudio goes through the proposed addition to the specification, which will address all the CIDs.

Q: In the sensing responder address, why is MAC address used instead of AID?

A: I need to check and come back. I see your point.

**11-22/1365r2, “CC40 CR for MLME – Part 1”, Narengerile (Huawei):** This document proposes comment resolutions for the following CIDs, which are related to the illustration of the message flow in Figure 6-28a, b, c and d in Draft 0.2

* 211, 212, 213, 214, 371, 824, 731, 35, 388, 733, 468, 469, 658, 659, 826, 827, 829, 820, 822, 389, 825, 732, 821, 484

Narengerile goes thorough the CIDs for which the resolutions have been updated compared to the previous revision.

CID 824: No discussion.

CID 35: Discussion related to whether the ACK is optional and should be indicated with a dashed line. Proposed to continue the discussion off-line.

CID 822: No discussion.

CID 825: Some discussion, but no change of the resolution.

Run out of time.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 3.31 pm (HST).

### Monday, September 12, 2022, 4:00-6:00 pm (HST)

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-1287-03-00bf-tgbf-meeting-agenda-2022-09-interim.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. Presentation of submissions
7. Guidance for Mix mode July Plenary
8. Any other business
9. Recess
10. The chair, Tony Xiao Han, calls the meeting to order at 4:00 pm (29 persons are on the call after 10 minutes of the meeting, 18 persons are in the room).
11. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the September 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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

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

The chair goes through the agenda (slide 19) and asks if there are any questions or comments on the agenda. Rajat requests to add one contribution to the agenda.

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

1. The Chair presents the TGbf Timeline (slide 23).
2. The Chair presents slide 24, Call for contributions.
3. The Chair presents the teleconference times (slides 25 and 26).
4. The Chair presents Guidance for Mix mode September Interim (27).
5. Presentation of submissions

**11-22/1365r2, “CC40 CR for MLME – Part 1”, Narengerile (Huawei):** This is a continuation from the last session.

CIDs 468, 469, 658, 659, 826, 827, 829, 389: Some discussion on note 1 on page 14, and Narengerile will discuss more off-line before updating and uploading the document.

CID 484: No discussion.

**11-22/1425r0, “CC40 Comment Resolutions for TB Instance Topic in NDPA and TF Sounding Phases”, Jiayi Zhang (Ofinno):** This document proposes resolutions for some CC40 TB sensing measurement instance-related comments in NDPA and TF sounding phases with CID: 617, 620, 622, 623, 761, and 764.

CID 617: reassigned

CIDs 620, and 761: Some discussion, and a minor editorial update. Claudio points out that there has been changes to the text made in a motion by Cheng, and the changes must be on top of these changes.

CIDs 622, 623, and 764: Some discussion, and a minor editorial update.

Decided to update the documents before running the SP.

**11-22/1386r3, “****CC40 CR for Topic Instance – Part 1”, Mengshi Hu (Huawei):**

This submission contains the proposed comment resolutions for the following 11 CIDs in the Topic “Instance” shown in 22/0820 IEEE 802.11bf CC40 comments.

CIDs 99, 100, 101, 102, 553, 555, 556, 557, 627, 813, 867

CIDs 99, 100, 101, 102: Suggested to reassign these, which is agreed.

CIDs 553, 555, 556, 557, 627, and 867: Claudio asks Mengshi to check D0.3 to make sure that the proposed resolutions are still valid. Also, one sentence related to CR for CID 867 is removed.

It is agreed to have some more discussion off-line with respect to these CIDs.

CID 813: No discussion.

**11-22/1387r1, “CC40 CR for Topic Setup – Part 1”, Mengshi Hu (Huawei):**

This submission contains the proposed comment resolutions for the following 8 CIDs in the Topic “Setup” shown in 22/0820 IEEE 802.11bf CC40 comments.

CIDs 146, 379, 516, 517, 536, 716, 779, 880,

CIDs 146, 536, 716, 779, and 880: No discussion.

CID 379: No discussion.

CIDs 516 and 517: No discussion

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

**Result:** The proposed resolutions are supported unanimously.

**11-22/0905r2, “CC40 CR for CIDs 666, 672 and 734”, Mengshi Hu (Huawei):**

This submission contains the proposed comment resolutions for the following CIDs in the Topic “Frames” shown in 22/0820 IEEE 802.11bf CC40 comments. CIDs 666, 672. Note that the resolution of CID 734 is not included in 905r1 (still under discussion).

CID 666: Some discussion whether we need another definition. Suggested to discuss further off-line.

CID 672: No discussion.

**11-22/1342r1, “Comment resolution for sensing session part 1”, Chaoming Luo (OPPO):**

This submission resolves comments of CID 807, 399, ~~463~~, 857, 142, 143, 806, which are related to the definition and identification of ‘sensing session’.

Chaoming goes through the changes made to CIDs 142 and 143. CID 463 is deferred.

CIDs 142 and 143: Based on comments from the group, the text of the proposed resolution is slightly updated.

**Strawpoll:** Do you support the proposed resolutions in revision 2 of this document, taking the comments from the group into account?

**Result:** The proposed resolutions are supported unanimously.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 6.00 pm (HST).

### Tuesday, September 13, 2022, 4:00-6:00 pm (HST)

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-1287-04-00bf-tgbf-meeting-agenda-2022-09-interim.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. Presentation of submissions
7. Guidance for Mix mode July Plenary
8. Any other business
9. Recess
10. The chair, Tony Xiao Han, calls the meeting to order at 4:01pm (39 persons are on the call after 15 minutes of the meeting, 26 persons are in the room).
11. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the September 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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

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

The chair goes through the agenda (slide 20) and asks if there are any questions or comments on the agenda.

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

1. The Chair presents the TGbf Timeline (slide 23).
2. The Chair presents slide 24, Call for contributions.
3. The Chair presents the teleconference times (slides 25 and 26).
4. The Chair presents Guidance for Mix mode September Interim (27).
5. Presentation of submissions

**11-22/0977r7, “Comment resolution for SBP reporting”, Chaoming Luo (OPPO):**

This submission resolves comments of CID 410, 590, 598, 602, 744, 596, 597, 641.

Chaoming goes through the changes made to the version that was presented last time.

CIDs 596 and 597:

Q: I have issues with 10 TU. I believe it is too long and not allowing for high enough sensing frequency. I suggest using a variable at this point in time and then discuss in further later.

A: I believe we have discussed this already and agreed to use 10 TU for now, and then change it later if found needed.

Q: It seems a lot of things will be based on Rojan’s contribution, maybe better to wait for this?

Q: On page 9, you should add “and Sensing Measurement Setup Response frames” and add a note.

As a consequence, it is agreed that the text needs to be updated, but the exact wording is to be agreed off-line.

CID 597: Some discussion related to that the modification should refer to D0.3, rather than D0.2.

CID 641: After some discussion, it is agreed that the text is OK.

**11-22/1402r0, “TGbf CC40 CR for CIDs for Sensing Measurement Setup – Part 1”, Insun Jang (LGE):**This submission proposes resolutions for following 13 CIDs received for TGbf CC40:

182, 415, 147, 754, 181, 416, 535, 782, 810, 811, 218, 586, 836

CID 182: Different opinions, agreed to discuss off-line.

CID 415: No discussion.

CID 147: No discussion.

CID 754: Resolution changed to reject.

CID 181: There is some proposal to change the text slightly. Propose to take this off-line.

CID 416: No discussion.

CID 535: No discussion.

CID 782: There is some proposal to change the text slightly.

CID 810: Suggested to change “determined” to “assigned”. Agreed to take this off-line. The resolution will be changed from rejected to revised.

CID 811: No discussion.

CIDs 218, 586, and 836: Some discussion related to that the comments may not any longer be applicable considering the updates done in D0.3.

Insun explains that he will update the document and have off-line discussion before requesting a SP.

**11-22/1455r0, “TGbf CC40 CR for CIDs for Sensing Measurement Setup – Part 2”, Insun Jang (LGE):** This submission proposes resolutions for following 5 CIDs received for TGbf CC40:

816, 905, 242, 895, 279

CIDs 816, 905, 242, 895, and 279: Proposed to put the proposed text as a note, and then change “should” to “can”.

Insun explains that he will update the document before requesting a SP.

**11-22/1459r0, “CR for CC40 Instance TTT Sensing Measurement Report Type Field Length”, Junghoon Suh (Huawei):** This submission proposes resolutions for the follwing CC40 CIDs: 65 and 119. The proposed changes are based on IEEE 802.11bf D0.1 [1].

CIDs 65 and 119: Junghoon presents three resolutions for the CIDs and asks the group which one is preferable. Agreed by the group to have discussions off-line.

**11-22/1461r1 “EHT NDP Support Using Ranging NDPA”, Junghoon Suh (Huawei):** This contribution is concerned with different options for what NDP PPDU may be used for sensing.

Run out of time.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 5.59 pm (HST).

### Wednesday, September 14, 2022, 4:00-6:00 pm (HST)

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-1287-05-00bf-tgbf-meeting-agenda-2022-09-interim.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. Presentation of submissions
7. Guidance for Mix mode July Plenary
8. Any other business
9. Recess
10. The chair, Tony Xiao Han, calls the meeting to order at 4:00pm (50 persons are on the call after 10 minutes of the meeting, 28 persons are in the room).
11. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the September 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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

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

The chair goes through the agenda (slide 21) and asks if there are any questions or comments on the agenda.

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

1. The Chair presents the TGbf Timeline (slide 23).
2. The Chair presents slide 24, Call for contributions.
3. The Chair presents the teleconference times (slides 25 and 26).
4. The Chair presents Guidance for Mix mode September Interim (27).
5. Presentation of submissions

**11-22/1461r1 “EHT NDP Support Using Ranging NDPA”, Junghoon Suh (Huawei):** This is a continuation of the presentation that started in the last session.

C: I believe there are so many things that we need to discuss so I propose we have an ad-hoc meeting. Basically, I don’t think people know enough to be able to give a meaningful answer to the SPs.

C: I agree that we need an ad-hoc. I also don’t agree with your conclusions.

As a result, Junghoon agrees to set up ad-hoc meetings.

**11-22/1254r2 “WLAN Sensing Measurement CSI Report with RX Frequency Category Index”, Julia Feng (Mediatek):** The contribution has been presented already and based on feedback updated accordingly.

C: I propose to change RX\_FR\_Index to RX\_OP\_Index

As a consequence, the SPs are updated.

Q: Will this impact the CSI format?

A: No.

C: I would prefer if we could have more discussions before running the SPs.

**Straw Poll 1:** Do you agree to add a field Rx\_OP\_Index along with CSI in 11bf sub-7GHz sensing measurement report to indicate the Rx operating point?

* **Rx\_** OP\_Index is a category index of receiver operating point
* **Rx\_** OP\_Index: number of bits is TBD
* **Rx\_** OP\_Index:per receive antenna is TBD

**Result:** Y/N/A:43/24/9

**11-22/1499r1 “Resolutions for CC40 SBP with Misc Comments”, Jiayi Zhang (Ofinno):**

This document proposes resolutions for some CC40 SBP-related comments with CID: 178, 529, 571, 580, 891, and 893.

CID 178: Deferred. No discussion.

CID 529: The wording of the resolution is slightly updated.

CID 571: No discussion.

CIDs 580, 891 and 893: No discussion. These CIDs are resolved in D0.3 (original resolution was made with respect to D0.2)

**Strawpoll:** Do you support the proposed resolutions in revision 2 of this document for CIDs 529, 571, 580, 891, and 893?

**Result:** The proposed resolutions are supported unanimously.

**11-22/1523r1 “DMG/EDMG Mono-Static PPDU”, Assaf Kasher (Qualcomm):**

This document proposes resolution to CID 418.

Q: What is the reason for allowing this freedom?

A: We have found that what is the best sequence may depend on the situation, and we believe one should have the freedom to select a suitable sequence provided some basic constraints are met.

Q: I don’t understand the reason for the detailed constraints in the last point.

A: I am open for changing this, but it is based on what we have seen in simulations.

Q: We need to change the language to be normative.

A: I agree.

Q: Can the BW be more than 1.76 GHz?

A: No. I will add a constraint related to this.

The chair asks about next steps.

Assaf explains that since he needs to make some changes, he will defer the SP.

Claudio briefly discusses about the consequences of the changes just made to Clause 6.3 in TGme, which was presented in the Mid-plenary.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 6.03 pm (HST).

### Thursday, September 15, 2022, 4:00-6:00 pm (HST)

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/22/11-22-1287-06-00bf-tgbf-meeting-agenda-2022-09-interim.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. Presentation of submissions
7. Guidance for Mix mode July Plenary
8. Motion (142-144)
9. Any other business
10. Adjourn
11. The chair, Tony Xiao Han, calls the meeting to order at 4:00pm (34 persons are on the call after 45 minutes of the meeting, 15 persons are in the room).
12. The chair goes through “Meeting Protocol, Attendance, Voting &Documentation Status” (slide 4), “Registration for the September 2022 interim session” (slide 5), “Participants have a duty to inform the IEEE” (slide 7), and “Ways to inform IEEE” (slide 8).

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

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

The chair goes through the agenda (slide 22) and asks if there are any questions or comments on the agenda.

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

1. The Chair presents the TGbf Timeline (slide 23).
2. The Chair presents slide 24, Call for contributions.
3. The Chair presents the teleconference times (slides 25 and 26).
4. The Chair presents Guidance for Mix mode September Interim (27).
5. Motions:

**Motion 142:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 146, 379, 516, 517, 536, 716, 779, 880
* as specified in 22/1387r1

**Move:** Yan Xin

**Second:** Jiayi Zhang

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1387r1
* SP Result: Unanimous consent

**Motion 143:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* CIDs 807, 399, 857, 142, 143, 806
* as specified in 11-22/1342r2

**Move:** Chaoming Luo

**Second:** Rajat Pushkarna

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1342r2
* SP Result: Unanimous consent

**Motion 144:** Move to approve resolutions to the following CIDs listed in the following document and incorporate the text changes into the latest TGbf draft:

* + CIDs 529, 571, 580, 891, 893
  + as specified in 22/1499r2

**Move:** Jiayi Zhang

**Second:** Sang Kim

**Result:** Motion passed by unanimous consent

**Note：**

* Related document 22/1499r2
* SP Result: Unanimous consent

1. Presentation of submissions

**11-22/1524r2 “EDMG Multi-Static PPDU Struct Update”, Assaf Kasher (Qualcomm):**

This document proposes an update to 11-22-1112 and resolves some TBDs.

Assaf goes through the updates that have been discussed in off-line discussions.

SP: Do you support the updates in this document?

The updates are unanimously supported.

**11-22/1558r0 “A Timing Problem of Sequential Coordinated Monostatic DMG Sensing”, Ning Gao (OPPO):** In this contribution, a timing problem of sequential Coordinated Monostatic DMG Sensing instance is shown and three possible solutions for this timing problem are proposed and compared.

Q: Is the number of requests the same as the number of STAs performing monostatic sensing?

A: Yes.

Q: What is then the difference between 1B and 2?

A: The poll frame.

Q: Why do we need this new poll frame in figure 1B?  
A: It is needed for timing sync.

Q: I mean why not reuse another frame that already exists, why do you need to introduce a new frame?

C: I don’t like option 1B because STA A is essentially treated differently.

Q: In Option 1B, how can STA A calculate when to start the Monostatic PPDU? I believe Option 2 seems plausible.

A: It is assumed that the duration of the request and response frames are predictable, in contrast to the sensing report frame and the corresponding ACK.

C: Seems like Option 2 does not allow for parallel sounding.

Q: Seems to me the SP does only talk about sequential sensing?

A: Yes, we are only concerned with sequential sensing.

**Straw Poll 1:** Which option do you support to solve the timing problem of the sequential Coordinated Monostatic DMG Sensing instance as shown in slide 3?

* **Option 1-A**: use a new poll frame to poll each responder STA, as shown in slide 5
* **Option 1-B**: use a new poll frame to poll each responder STA except the first, as shown in slide 6
* **Option 2**: use the DMG Sensing Request frame to poll each responder STA, as shown in slide 7

**Result:** Option 1A/Option 1B/Option 2/Neither/Abstain: 0/1/16/0/5

**11-22/1495r1 “DMG comments resolution part five”, Solomon Trainin (Qualcomm):**

Resolution for CIDs 338, 340

CID 338: Based on the feedback from the group, the proposed resolution in slightly updated.

Run out of time.

Tony asks Claudio to give a status update regarding CRs. The status is that we have resolved almost 50% of the comments.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is adjourned without objection at 6.02 pm (HST).