IEEE P802.11  
Wireless LANs

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| IEEE 802.11bf - January 2023 Ad-Hoc Meeting Minutes | | | | |
| Date: 2023-01-15 | | | | |
| Author(s): | | | | |
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Abstract

Rev 0: This document contains the IEEE 802.11bf January 2023 Ad-Hoc meeting minutes.

Rev 1: List of attendees added for 13th and 14th of January.

### Friday, January 13, 2023, 8:00-10:00 am

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0047-01-00bf-tgbf-meeting-agenda-2023-01-adhoc.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. D0.1 CR Status
7. Presentation of submissions
8. RSVP Requested
9. Any other business?
10. Adjourn
11. The chair, Tony Xiao Han, calls the meeting to order at 8:01am (31 persons are on the call after 45 minutes of the meeting, 11 persons are in the room).
12. 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). The chair asks if there are any questions or comments on the agenda. Assaf informs that he has a presentation he believes should be in Table 1. The presentation is added to the agenda.

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

1. The Chair presents the TGbf Timeline (slide 18).
2. The Chair presents slides 19 and 20.
3. The Chair presents the teleconference times (slides 21 and 22).
4. The Chair presents Guidance for Mix mode AdHoc meeting (slide 23).
5. The Chair presents IEEE 802.11 TGbf AdHoc (slide 28).
6. Presentation of submissions:

**11-22/1824r1, “CC40 CR for CID 575”, Dongguk Lim (LGE):**

This submission proposes the resolutions for following 2 CID

* 575, 501

CIDs 575 and 501: Some clarifying discussion related to the specific case where the SBP initiator also is the sensing receiver in SR2SR and therefore there is no need for the SBP responder (AP) to send a report.

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

**Result:** Unanimously supported.

**11-22/2195r2, “CC40 CR for CID 487”, Dongguk Lim (LGE):**

This submission proposes the resolutions for following 3CIDs:

* 487, 585, 654

The resolution is based on the 11bf D0.5.

CIDs 487, 585, and 654: No discussion.

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

**Result:** Unanimously supported.

**11-23/0009r2, “CC40 CR of 6 CIDs related to R2R”, Dongguk Lim (LGE):**

This submission proposes the resolution for following 6 CID:

* 6, 254, 375, 381, 460, and 486

CID 460: Claudio points out that there is another contribution which also addresses a related comment.

CIDs 375 and 486: No discussion.

CID 6: No discussion.

CID 254: No discussion.

CID 381: No discussion.

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

**Result:** Unanimously supported.

**11-23/0017r0, “Update of Sensing Poll Trigger frame”, Dongguk Lim (LGE):**

This submission proposes an update of text for sensing Trigger frame to apply the passed motion 162.

This amendment is based on the 11bf D0.5.

Based on the discussion and the feedback from the group Dongguk will updated to a new revision also including alternatives which then can be discussed further by the group.

**11-22/1998r1, “CR for Misc CIDs”, Dibakar Das (Intel):** This submission addressed the following CIDs relative to 11bf draft 0.5: 5 61 62 63 64 118 507 897 898 374 738 741 792 793 165 799 798 797 780 762 775 740 794

Some clarifying discussion of the document.

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

**Result:** Unanimously supported.

Q: Can you explain why the synchronization is needed.

A: It is for the unassociated STAs.

Claudio points out that CID 798 us already resolved and asks Dibakar to remove it from this document before running the motion.

Since the document is updated, the SP is run again without CID 798.

**Straw Poll:** Do you support the proposed CRs in r2 of this document?

**Result:** Unanimously supported.

**11-23/0055r0, “PIC baseline”, Assaf Kasher (Qualcomm):**

This document proposes a baseline for the PICS annex changes.

Run out of time.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 10.00 am (ET).

### Friday, January 13, 2023, 10:30 am-12:30 pm

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0047-02-00bf-tgbf-meeting-agenda-2023-01-adhoc.pptx>

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2. Patent policy and logistics
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4. Call for contribution
5. Teleconference Times
6. D0.1 CR Status
7. Presentation of submissions
8. RSVP Requested
9. Any other business?
10. Adjourn
11. The chair, Tony Xiao Han, calls the meeting to order at 10:30 am (29 persons are on the call after one hour of the meeting, 10 persons are in the room).
12. 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). The chair 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 19).
2. The Chair presents slides 20 and 21.
3. The Chair presents the teleconference times (slides 22 and 23).
4. The Chair presents Guidance for Mix mode AdHoc meeting (slide 24).
5. The Chair presents IEEE 802.11 TGbf AdHoc (slide 29).
6. Presentation of submissions:

**11-23/0055r0, “PIC baseline”, Assaf Kasher (Qualcomm):**

This document proposes a baseline for the PICS annex changes.

This is a continuation from the last session.

**Straw Poll:** Do you support having one entity Initiator and Responder in the PICS table (for both WLAN and DMG)?

**Result:** Y/N/A: 20/0/3

Assaf encourages the group to review the document.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 12.20 pm (ET).

### Friday, January 13, 2023, 1:30 pm-3:30 pm

**Meeting Agenda:**

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

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4. Call for contribution
5. Teleconference Times
6. D0.1 CR Status
7. Presentation of submissions
8. RSVP Requested
9. Any other business?
10. Adjourn
11. The chair, Tony Xiao Han, calls the meeting to order at 1:30 pm (30 persons are on the call after 15 minutes of the meeting, 10 persons are in the room).
12. 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). The chair asks if there are any questions or comments on the agenda. Ali explains that he has worked on an updated presentation for NDPA and would like to add that to the agenda.

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

1. Presentation of submissions:

**11-23/0030r1, “RSSI in the Sensing Measurement Report”, Steve Shellhammer (Qualcomm):**

Revision 0 was presented in a recent teleconference and based on the feedback from the group Steve has updated the contribution to r1.

Q: It is not clear to me that the RSSI is needed.

A: We have received information that there are applications where it is used. In addition, the additional overhead is very small compared to e.g. CSI.

Some discussion about that the granularity of that the RSSI value is 1 dB whereas the accuracy may be 3 or 5 dB, so maybe the granularity is unnecessary small.

Some discussion about that if the same device is used for sensing, the spread between different RSSI measurement can be expected to be much better than the required accuracy as the errors can be expected to be correlated.

Q: Why do we consider RSSI and not SNR.

A: Basically, RSSI represents the environment we are interested in. SNR would depend on other things but can also be seen as important as it can be viewed as an indication of the accuracy of the RSSI.

Some discussion about that RSSI may vary depending on varying interference level although the power of the desired signal is constant.

Q: I propose not to introduce requirements on the accuracy, but rather refer to other places in the specification where relevant requirements can be found if needed.

**Straw Poll 1:** Do you agree to include the per-RX-Antenna RSSI in the Sensing Measurement report?

**Result:** Unanimously supported.

**Straw Poll 2:** Do you agree that the encoding of the per-RX-Antenna RSSI in the Sensing Measurement report uses the following table?

|  |  |
| --- | --- |
| **RSSI Subfield value** | **RSSI Measured at the Receive Antenna (dBm)** |
| 0 |  |
| 1 |  |
| 2 |  |
|  |  |
| 61 |  |
| 62 |  |
| 63-255 | Reserved |

**Result:** Deferred

**Straw Poll:** Do you agree to specify a dB RSSI accuracy requirement for the per-RX-Antenna RSSI in the Sensing Measurement report?

**Result:** Unanimously supported.

The chair encourages the group to discuss further with respect to SP2.

**11-23/0067r0, “SR2SI and SR2SR variants in TF Sounding Phase”, Dong Wei (NXP):**

This document proposes a unified TF sounding phase with SR2SI and SR2SR variants.

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

**Result:** Unanimously supported.

**11-22/2146r2, “Updated PDT Sensing NDPA Frame Format”, Ali Raissinia (Qualcomm):**

This document is the updated version of the NDPA frame format to be used instead of text in D0.51

Ali asks the group to review the proposed text and give feedback.

**11-22/2200r0, “Resolutions for Open Technical Comments”, Claudio da Silva (Meta Platforms):** This submission proposes resolutions to technical comments submitted in CC40.

CIDs: 385, 663

CID 663: No discussion.

CID 385: No discussion.

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

**Result:** Unanimously supported.

**11-22/2197r0, “TGbf CC40 CR for Miscellaneous CIDs for Sensing Measurement Setup”, Insun Jang (LGE):** This submission proposes resolutions for following 4 CIDs received for TGbf CC40: 121, 906, 264, 238

CID 121: No discussion.

CID 906: Some clarifying discussion.

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 3.30 pm (ET).

### Friday, January 13, 2023, 4:00 pm-6:00 pm

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0047-04-00bf-tgbf-meeting-agenda-2023-01-adhoc.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. D0.1 CR Status
7. Presentation of submissions
8. RSVP Requested
9. Any other business?
10. Adjourn
11. The chair, Tony Xiao Han, calls the meeting to order at 4:00 pm (29 persons are on the call after 15 minutes of the meeting, 10 persons are in the room).
12. 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), which covers the entire day. The chair asks if there are any questions or comments on the agenda. No response from the group.

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

1. Presentation of submissions:

**11-22/2197r0, “TGbf CC40 CR for Miscellaneous CIDs for Sensing Measurement Setup”, Insun Jang (LGE):** This submission proposes resolutions for following 4 CIDs received for TGbf CC40: 121, 906, 264, 238

This is a continuation of the presentation from the previous session.

CID 264: No discussion.

CID 238: No discussion.

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

**Result:** Unanimously supported.

**11-22/0002r3, “****CC40 CR for Topic Threshold – Part 4”, Mengshi Hu (Huawei):**

This submission contains the proposed comment resolutions for the remaining 2 CIDs in the Topics “Threshold” shown in 22/0820 IEEE 802.11bf CC40 comments.

CIDs 287 and 483.

CID 287: Some clarifying discussion related to what value 15 implies as it was stated as “unused” in the table. The table is updated so that value 15 implies “Basic reporting phase (The CSI variation feedback is not used)”.

CID 483: Q: I don’t understand why you need a new primitive. I believe it can be done with the current protocol.

As a results of this comment and some discussion, the corresponding figure is updated.

**Straw Poll:** Do you support the proposed CRs in r4 of this document?

**Result:** Unanimously supported.

**11-22/0001r0, “DMG Procedure Examples”, Assaf Kasher (Qualcomm): (typo in document header, it says r1)**

This document proposes a clean-up of the examples of the DMG sensing procedure. The examples will be moved to the correct places in the subclauses discussing the procedure.

All changes are based on D0.5

CID 443: Some clarifying discussion with the editor.

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

**Result:** Unanimously supported.

**11-22/0059r0, “PDT for Sensing Measurement Report – Bug Fix”, Mahmoud Kamel (Interdigital):** This submission proposes changes to the Sensing Measurement report in P802.11bf D0.51:

Based on feedback from the group the text is modified, but no agreement is reached.

Run out of time.

1. The chair asks if there is AoB. No response from the group.
2. The meeting is adjourned without objection at 6.04 pm (ET).

**List of Attendees**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 1/13 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 1/13 | Dash, Debashis | Apple Inc. |
| TGbf | 1/13 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 1/13 | Eitan, Alecsander | Qualcomm Technologies, Inc. |
| TGbf | 1/13 | Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. |
| TGbf | 1/13 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 1/13 | Li, Yunbo | Huawei Technologies Co., Ltd |
| TGbf | 1/13 | Lim, Dong Guk | LG ELECTRONICS |
| TGbf | 1/13 | Lin, Zinan | InterDigital, Inc. |
| TGbf | 1/13 | McCann, Stephen | Huawei Technologies Co., Ltd |
| TGbf | 1/13 | Naik, Gaurang | Qualcomm Incorporated |
| TGbf | 1/13 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 1/13 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 1/13 | Sand, Stephan | German Aerospace Center (DLR) |
| TGbf | 1/13 | Schweizer, Benedikt | Apple Inc. |
| TGbf | 1/13 | Trainin, Solomon | Qualcomm Incorporated |
| TGbf | 1/13 | Wei, Dong | NXP Semiconductors |
| TGbf | 1/13 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 1/13 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbf | 1/13 | Zhang, Jiayi | Ofinno |
| TGbf | 1/13 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |

### Saturday, January 14, 2023, 8:00 am-10:00 am

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-0047-06-00bf-tgbf-meeting-agenda-2023-01-adhoc.pptx>

1. Call the meeting to order
2. Patent policy and logistics
3. TGbf Timeline
4. Call for contribution
5. Teleconference Times
6. D0.1 CR Status
7. Presentation of submissions
8. RSVP Requested
9. Any other business?
10. Recess
11. The chair, Tony Xiao Han, calls the meeting to order at 8:00 pm (27 persons are on the call after 15 minutes of the meeting, 10 persons are in the room).
12. 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). The chair asks if there are any questions or comments on the agenda. No response from the group.

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

1. The Chair presents the TGbf Timeline (slides 22 and 23).
2. The Chair presents Call for contribution (slide 24)
3. The Chair presents the teleconference times (slides 25 and 26).
4. Presentation of submissions:

**11-22/2146r4, “Updated PDT Sensing NDPA Frame Format”, Ali Raissinia (Qualcomm):**

This document is the updated version of the NDPA frame format to be used instead of text in D0.51.

The contribution was presented yesterday, but the SP was deferred to give people some time to review the document. The document has been slightly updated based on comments from the group.

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

**Result:** Unanimously supported.

**11-23/0070r1, “RXVECTOR Parameter CSI\_ESTIMATE”, Claudio da Silva (Meta Platforms):** This submission proposes a possible definition for the RXVECTOR parameter CSI\_ESTIMATE.

Some discussion about whether a reference to 9.4.1.75.4 is appropriate or if the reference should be to another subsection instead.

Claudio writes down three different alternatives for the group to consider.

Q: I believe the third option is the best one.

Q: To me the less specific this is the better. The reason being that this has nothing to do with interoperability but is something that is internal between the MAC and the PHY.

A: Tanks, I understand this as alternative 2 is your preference.

Q: I prefer option 3.

As a result of the discussion, Claudio explains he will update the document taking the feedback into account and then present during the Interim meeting.

**11-23/0059r0, “PDT for Sensing Measurement Report – Bug Fix”, Mahmoud Kamel (Interdigital):** This submission proposes changes to the Sensing Measurement report in P802.11bf D0.51.

This is a continuation from yesterday’s PM2 session.

**Straw Poll:** Which option of the following options do you prefer to change the text in Subclause 11.55.1.2 Dependencies in 11bf D0.51 P156L9

1. A STA that transmits a Sensing Measurement Report frame shall support values of 8 and 10.
2. A STA shall support values of 8 and 10 in the Sensing Measurement Report frame.
3. A STA shall support values of 8 and 10 in the Sensing Measurement Report frame it transmits.
4. When a STA transmits a Sensing Measurement Report frame, it shall support values of 8 and 10.
5. When a STA transmits or receives a Sensing Measurement Report frame, it shall support values of 8 and 10.

**Result:** 1/2/3/4/5/abs: 1/16/0/9/1/4

1. The chair asks if there is AoB. No response from the group.
2. The meeting is recessed without objection at 10.00 am (ET).

### Saturday, January 14, 2023, 10:30 am-12:30 pm

**Meeting Agenda:**

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

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6. D0.1 CR Status
7. Presentation of submissions
8. RSVP Requested
9. Any other business?
10. Recess
11. The chair, Tony Xiao Han, calls the meeting to order at 10:30 am (29 persons are on the call after 15 minutes of the meeting, 10 persons are in the room).
12. 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). The chair asks if there are any questions or comments on the agenda. Mahmoud’s document (0059r1) is added 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. Presentation of submissions:

**11-23/0059r1, “PDT for Sensing Measurement Report – Bug Fix”, Mahmoud Kamel (Interdigital):** This submission proposes changes to the Sensing Measurement report in P802.11bf D0.51.

The contribution has been updated to r1, taking into account the discussion and the SP result in the AM1 session.

Based on a comment from Claudio the document is slightly updated.

**Straw Poll:** Do you support the proposed text in r2 of this document?

**Result:** Unanimously supported.

**11-23/0008r1, “PDT – non-DMG report timestamp generation”, Chris Beg (Cognitive Systems):** This submission includes the proposed draft text on the non-DMG PHY report timestamp generation for P802.11bf D0.5.

CID 588: Some clarifying discussion related to the timestamp and RXSTART.

Chris will continue the discussion offline.

**11-23/0071r0, “CC40 CR for CIDs 466 and 772”, Dong Wei (NXP):** This document aims to resolve the following two comments received in CC40: CIDs 466 and 772.

CID 466: No discussion.

CID 772: No discussion.

**Straw Poll:** Do you agree to the resolutions provided in the document 11-23/0071r0for the following CIDs: 466 and 772?

**Result:** Unanimously supported.

**11-23/0065r0, “D0.51 Bug fixes”, Solomon Trainin (Qualcomm):** Solomon goes through a number of issues he has found in D0.51.

**9.4.2.36 Neighbor Report element**: The proposed text it slightly updated based on feedback from the group.

**9.4.2.328 DMG Sensing Report Control element:** No discussion.

**9.4.2.329.4 DMG Sensing Targets Report Data subelement:** No discussion**.**

**9.4.2.333 DMG Sensing Instance Duration element:** No discussion.

**9.4.2.334 DMG SBP Parameters element:** No discussion**.**

**9.6.7.49 Sensing Measurement Setup Request frame format:** Some clarifying discussion.

**9.6.7.50 Sensing Measurement Setup Response frame format:** Some clarifying discussion.

**9.6.7.55 SBP Response frame format:** No discussion**.**

**9.6.10 Protected Dual of Public Action frames:** Some clarifying discussion.

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 12.29 pm (ET).

### Saturday, January 14, 2023, 1:30 pm-3:30 pm

**Meeting Agenda:**

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

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10. Recess
11. The chair, Tony Xiao Han, calls the meeting to order at 1:30 pm (23 persons are on the call after 15 minutes of the meeting, 10 persons are in the room).
12. 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).

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. Presentation of submissions:

**11-23/0065r0, “D0.51 Bug fixes”, Solomon Trainin (Qualcomm):** Solomon goes through a number of issues he has found in D0.51.

Solomon started to present in the AM2 session and this is a continuation of this presentation.

**9.6.7.54 SBP Request frame format:** No discussion.

**9.6.7.55 SBP Response frame format:** No discussion.

**9.6.21.8 DMG Sensing Measurement Setup Request frame format:** No discussion.

**9.6.21.10 DMG Sensing Measurement Report frame format:** No discussion.

**9.6.21.12 DMG SBP Request frame format:** No discussion.

**9.6.21.14 DMG SBP Report frame format:** No discussion.

**11.55.1.4 Sensing measurement setup:** No discussion.

**11.55.2.2 Setup:** Some clarifying discussion. Some text is added.

**11.55.3.4 DMG sensing measurement setup:** Some clarifying discussion.

**11-22/0919r15, “CC40 SPs and motions”, Claudio da Silva (Meta Platforms):**

Claudio goes through the documents that are to be presented in the meeting next week and the status of the CIDs still not resolved.

**11-23/0017r1, “Update of Sensing Poll Trigger frame”, Dongguk Lim (LGE):**

This submission proposes an update of text for sensing Trigger frame to apply the passed motion 162. This amendment is based on the 11bf D0.5.

Dongguk presented r0 of this contribution yesterday and goes through the updates made.

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

**Result:** Unanimously supported.

**11-22/2198r1, “MFP and Sensing”, Chaoming Luo (OPPO):** This contribution proposes how to use MFP (management frame protection) in sensing.

Detailed discussion related to whether the proposed feature is needed.

Also, there is a reluctance by several persons to tamper with security in the proposed way.

Because of the feedback, both SPs are deferred.

**11-23/0073r1, “SBP Indication in Measurement Setup”, Debashis Dash (Apple):**

In a SBP procedure, the AP performs WLAN sensing when requested by a SBP initiator.

The responder(s) cannot identify if the request for the measurement setup is for a WLAN sensing or SBP sensing session. Since any sensing capable associated node can send the SBP request, this is a potential security and privacy issue. Therefore, it is proposed to include a SBP indication in the sensing setup request frame.

**Straw Poll 1:** Do you agree to include a SBP procedure indicator sub-field (1 bit) to the sensing measurement parameters field used in the Measurement Setup Request Frame?

**Result:** Deferred

1. The chair asks if there is AoB. No response from the group.
2. The meeting is adjourned without objection at 4.04 pm (ET).

**List of Attendees**

|  |  |  |  |
| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbf | 1/14 | Beg, Chris | Cognitive Systems Corp. |
| TGbf | 1/14 | Dash, Debashis | Apple Inc. |
| TGbf | 1/14 | da Silva, Claudio | Meta Platforms; PWC, LLC |
| TGbf | 1/14 | Dong, Xiandong | Xiaomi Inc. |
| TGbf | 1/14 | Eitan, Alecsander | Qualcomm Technologies, Inc. |
| TGbf | 1/14 | Gao, Ning | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| TGbf | 1/14 | Hsu, Ostrovsky | Xiaomi Communications Co., Ltd. |
| TGbf | 1/14 | Kamel, Mahmoud | InterDigital, Inc. |
| TGbf | 1/14 | Kasher, Assaf | Qualcomm Incorporated |
| TGbf | 1/14 | Kim, Sang Gook | LG ELECTRONICS |
| TGbf | 1/14 | Lim, Dong Guk | LG ELECTRONICS |
| TGbf | 1/14 | narengerile, narengerile | Huawei Technologies Co., Ltd |
| TGbf | 1/14 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbf | 1/14 | Sand, Stephan | German Aerospace Center (DLR) |
| TGbf | 1/14 | Schweizer, Benedikt | Apple Inc. |
| TGbf | 1/14 | Trainin, Solomon | Qualcomm Incorporated |
| TGbf | 1/14 | Wei, Dong | NXP Semiconductors |
| TGbf | 1/14 | Wilhelmsson, Leif | Ericsson AB |
| TGbf | 1/14 | Xin, Yan | Huawei Technologies Co., Ltd |
| TGbf | 1/14 | Zhou, Pei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |