IEEE P802.11
Wireless LANs

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| IEEE 802.11bf – Teleconference Minutes July-September 2022  |
| Date: 2022-07-25 |
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Abstract

This document contains minutes for the TG 802.11bf teleconferences in July-September 2022.

Rev 0: Minutes for TG 802.11bf teleconferences on the19th and 21st of July 2022.

**Tuesday, July 19, 2022, 10:00 am-12:00 pm (ET)**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/22/11-22-1154-00-00bf-tgbf-meeting-agenda-2022-07-teleconference-part-2.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 (about 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 16) and asks if there are any questions or comments on the agenda.

The Chair asks if there is any objection to approve the modified agenda. No objection from the group so the agenda is approved.

1. The Chair presents the TGbf timeline (slide 17) and introduces a straw poll on time line (slide 18). He opens the floor for question and comment on timeline. The following questions and comments are noted:

C: After 2 months of comment resolution, around 10% of technical comments are resolved. It is unrealistic to assume that we resolve all technical comments by September. Even D2.0 or D0.2 by November may be hard to achieve. We may need more time until January. 11be also started comment resolution and that will impact our progress when it comes to comment resolution. Please provide more inputs.

C: It is reasonable to delay at least one month. We received around 1000 comments, many of them are technical. Some folks are busy due to vacation, 11be comment resolution, etc. It is better to delay.

C: Delay to November seems good, but January is not since January is 6 months’ away from now.

Q: Is there absolute time to change the timeline?

A: Timeline can be changed quickly. One day notice is enough.

C (Chair): No need to hurry. We will see the progress through August and decide.

C: Delay is needed. 2 months’ delay seems reasonable. Editor mentioned D0.x version for another round of comment resolution, but it seems not beneficial.

Q: How many comments are relatively easy and hard?

A: It is not easy to answer because they are mixed.

C: Timeline is less important and more important is when we get done.

Q: We should focus on resolving comments, especially TBD comments. Does the Editor have a plan to generate tables that show who needs to resolve which comments?

A: We already have a document in the server. Since we resolved around 10% of comments, it is better to specify TTT, not person assigned.

C (Chair): Will work with Editor to provide guidance or action. Will contact PoC to check what types of CIDs are easy or controversial and check if help is needed.

C: Relaxing a deadline will incur opposite effect. Assignees may feel they have more time to resolve. PoC needs to contact TTT members to ask when CIDs assigned can be resolved. Based on this information, we can estimate the required time and then change the timeline.

Chair stated that it is not the right time to decide and we will see the progress through August. The editor will prepare 1 or 2 slides to speed up. Offline discussion will follow.

1. The Chair presents slide 19, Call for contributions.
2. The Chair presents the teleconference times (slides 20 and 21). For September meeting, we are still waiting for confirmation on Tuesday PM2 slot. Monday PM1 is requested in case we have not 4 time slots. If Tuesday PM2 is confirmed, then we will have 5 sessions in September meeting.
3. Presentations:

**11-22/1158r1, “Sensing Measurement Report Type for sub-7 GHz WLAN sensing”, Junghoon Suh (Huawei):** This contribution proposes to have the CSI proposed be the only Sensing Measurement Report Type for sub-7GHz in TGbf. Introduction of another report type will require another round of long discussion.

Q: If only one type of report is considered, then we don’t need to signal.

A: Signaling needs further discussion.

C: A few bits are required for future extension.

A: We can consider during the discussion for actual frame format.

C: Currently mandatory format is supported. It is noted that there are a few limitations. For example, the compression for Ng = 8 in 160 MHz is not great. Other format is suitable for other application.

A: We did a lot of discussion on feedback types. This is the best we can now. Other issues can be raised during PDT writing. The presenter does not object to place a more subfield for future extension.

C: Temporary agreement on harmonized feedback type. For SP1, do you want to limit our future addition? What do you have in your mind, 1, 2, or 3?

A: We can discuss further in the next round of TGbf.

C: WLAN sensing has been around a decade in R&D. CSI can be utilized in a wide range of applications. If we limit the report type to CSI only, we enable to support a wide range of applications. Agree that we can always make optimization, but it will take a longer time.

C: If we support only CSI report, then we need to think whether a threshold-based reporting should be in the draft.

A: The threshold-based reporting is based on the CSI feedback. Contents of threshold-based feedback is still CSI.

C: It is better to run SP2 first.

A: SP#1 can be skipped and let’s directly go to SP#2.

Straw Poll 2: Do you agree that the measurement report type in the PDT Formatting of CSI 22/1020 is the only one defined for the sub-7 GHz WLAN sensing, TGbf ?

- Signaling of CSI Feedback type is for further discussion

Result: Y/N/A: 23/3/8

11-22/0980r0, “CC40 CR for CIDs 52, 365 and 449”, Rui Du (Huawei): This submission contains the proposed comment resolutions for the CIDs 52, 365, 449.

CID 365: No discussion.

CID 449 and 52:

C: When several responders transmit at the same time, they will interfere with each other. Thus, a false detection and miss direction estimation will incur. It may not work in many cases.

A: It is assumed that directional antennas with very narrow beams. It should work. Transmission could also be sequential. Further offline discussion will follow.

C: Sensing PPDU and monostatic PPDU are not defined. “The sensing responders will go through the Num TX Beams Per Intance beams to transmit and receive the sensing PPDUs” needs to be changed to normative text.

C: Some minor editorial comments are provided.

The presenter will go through all suggestion, modify the contribution, and then bring back the updated contribution.

1. Chair noted that no more contribution in the queue. If at least 2 requests for presentation are not received by Wednesday, then the call on Thursday will be cancelled.
2. Chair asks if there is AoB.
3. The meeting is adjourned without objection at 11:38 am ET.

**List of Attendees:**

**Thursday, July 21, 2022, 11:00 pm-01:00 am (ET)**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/22/11-22-1154-02-00bf-tgbf-meeting-agenda-2022-07-teleconference-part-2.pptx>

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The Chair goes through the agenda (slide 17) and asks if there are any questions or comments on the agenda.

The Chair asks if there is any objection to approve the modified agenda. No objection from the group so the agenda is approved.

1. The Chair presents the TGbf timeline (slides 18). The Chair stated that the SP of timeline will be discussed at the beginning of August. The Editor also stated that for D1.0, we need to address all the comments and TBDs in the draft.
2. The Chair presents slide 20, Call for contributions.
3. The Chair presents the teleconference times (slide 21). The Chair is working with WG vice chair to confirm 5 sessions in September Interim meeting.
4. Presentations:

**11-22/1168r2, “Resolutions for CIDs Related to Measurement Setup ID and Termination: Part 1”, Pei Zhou (OPPO):** This submission proposes resolutions for CIDs 11, 46, 75, 76, 77, 80, 260, 261, 378, 492, 515 and 518. The text used as reference is 802.11bf D0.1.

Q: We need to get rid of TBDs and now is the time. Measurement Setup ID of 8 bits is initially suggested. We can update later if necessary. Please don’t reject CIDs 75, 76, and 77.

C: 8 bits seems reasonable.

C: It appears that it is already 8 bits in DMG. It doesn’t need to be the same, but 8 bits is reasonable. Actual numbers in NDPA and Trigger frames can be negotiated.

C: Rejection is not correct resolution when TBD exists. Not to decide the solution now. Anyway we need solution.

A: It will be updated to a new revision through offline discussion.

CIDs 260, 261, and 378 are the same and will be updated based on the offline discussion.

Q: For CIDs 80 and 492, the same issues are in the number of frames, e.g., SBP Request/Response frames, etc. Agree with the resolution. Please go to find other TBD places and do the same thing.

A: Will go through the text with commenter (Editor).

Q: Measurement Setup ID is not greater than 5 bits. Please do not resolve the comment as “rejected”.

Q: Any suggestion on the number of bits?

A: Just make 5 bits. Let’s do offline work.

Q: Motion 100 is deferred, but it is not clear which contents are already in Motion 100 and which ones are new. In addition, Motion 100 is denoted in the figure. We can still use 1 octet of Measurement Setup ID in other frame(s) and designate the rest of the bits as reserved if 5 bits is needed.

Q: Do we agree 5 bits in other document?

A: 5 bits is temporary and can be changed in the future. We can consider 5 bits as upper bound.

C: Place “upper bound” beside 5 bits.

The Chair stated that another presentation request is needed when the update is available.

**11-22/1170r0, “Resolutions for CIDs Related to Measurement Setup ID and Termination: Part 2”, Pei Zhou (OPPO):** This submission proposes resolutions for CIDs 132, 138, 139, 184, 275 and 634. The text used as reference is 802.11bf D0.1.

No question/comment is noted for CID 184.

For CID 275, the following discussions were noted:

Q: Don’t understand the rejection as a resolution. A sensing responder is unaware that it is involved in SBP procedure, and it can terminate a sensing measurement any time, therefore a sensing responder terminated a MS may trigger SBP procedure termination is possible.

If the sensing responder is the SBP initiator, and it send the sensing setup termination frame with a MSID which is involve in the SBP case, how we handle this situation?

C: In that case, it only terminates its own participation in the SBP procedure. It does not necessarily mean it has to terminate the whole SBP. If it wants to terminate the SBP, it will send an SBP termination rather than a measurement setup termination.

Q: If the number of the sensing responders is not fulfilled the requirement of the SBP request frame, how is the following behavior?

C: Again, let's separate the SBP termination with the sensing measurement setup termination.

Q: The normal TB is involved in the SBP case, how separate?

Q: Why do we have to mix these two together?

C: I don't like to mix the two too, but the reality is the SBP case includes the normal TB.

C: We could reuse the SBP termination text: An SBP procedure may be terminated at any time by either the SBP initiator or the SBP responder by transmittingan SBP Termination frame.

C: Support rejection. It is AP’s decision whether to terminate or not.

C: What the commenter wants is already in the Spec.

The Chair asked continued offline discussion.

For CID 634, “vice versa” will cause a lot of confusion in the future.

For CID 138 and 139,

C: This is overview section and two sentences related to CIDs 138 and 139 do not carry much information. Delete now and bring clarification text through offline discussion.

The Chair asked continued offline discussion.

**11-22/0829r3, “11bf D0.1 CR for CID 1, 589, 647”, Ning Gao (OPPO):** This submission proposes resolutions for the following 3 CIDs for 11bf D0.1 Comment Collection: CIDs - 1, 589, 647.

This contribution was presented two weeks ago and nothing is changed for CID 1 and 647, but modification is done for CID 589.

No question/comment is raised.

**Straw poll was taken to approve the resolutions in 11-22/0829r3.**

**Result:** Approved by unanimous consent. Motion will be requested to the Chair.

1. The chair asks if there is AoB. No response from the group. The Chair will cancel next Monday’s call due to the lack of contribution requests. Monday slot will be used for ad hoc discussion on SBP-related issues.
2. The meeting is adjourned without objection at 12:31am ET.

**List of Attendees:**