IEEE P802.11  
Wireless LANs

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| IEEE 802.11ba Task Group Meeting Minutes for November Meeting, Waikoloa, HI, US | | | | |
| Date: 2019-11-14 | | | | |
| Author(s): | | | | |
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Abstract

Rev 0: Meeting Minutes for the IEEE 802.11ba TG sessions held in Waikoloa, HI, US

**Monday, November 11, 2019, 1:30-3:30 pm**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/19/11-19-1743-02-00ba-2019-november-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* **Motion**: September 2019 meeting (doc: IEEE 802.11-19/1685r0) and teleconference minutes (doc: IEEE 802.11-19/1790r2) approval
* Presentations on comment resolutions
* Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 1:30 pm.** (about15 persons in the room.)

Minyoung presents the slide about Meeting protocol (slide 4).

Minyoung reminds about recording attendance (slide 5) and goes through slide 6 “Attendance, Voting & Document Status”.

Minyoung presents the schedule for the week (slide 7). There are six sessions in total.

Minyoung presents the slide “Main agenda items for the week” (slide 8). The main agenda items are shown below:

* Complete comment resolution on TGba D4.0 (LB243) and instruct the editor to generate P802.11ba D5.0
* Approve WG recirculation letter ballot
* Review TG timeline

Minyoung goes through the list of submissions. (slides 9-10). 9 submissions are received in total. A total of 17 submissions are in the queue. A significant fraction of comments relates to BPSK Mark and the false detection of L-STF.

Minyoung goes through the agenda for the meeting (slide 11). Minyoung asks if there are any questions on the agenda. No response from the group.

**Motion to approve the agenda**

**Move:** Eunsung Park

**Second:** Rojan Chitrakar

Motion passed by unanimous consent.

Minyoung goes through the slides “Participants have a duty to inform the IEEE” (slide 13) and “Ways to inform IEEE” (slide 14).

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

Minyoung goes through “Other Guidelines for IEEE WG meetings” (slide 15) and “Patent-related information” (slide 16).

Minyoung reads through “Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct” (slide 17) and “Participants in the IEEE-SA “individual process” shall  
act independently of others, including employers (slide 18).

Minyoung goes through “IEEE-SA standards activities shall allow the fair &  
equitable consideration of all viewpoints” (slide 19).

Minyoung goes through the Summary from September 2019 Meeting and Teleconference Calls, shown below.

* **In September meeting:**
  + Completed comment resolution on D3.0 (LB241)
  + Approved 15-day WG recirculation letter ballot on D4.0 (LB243)
  + Reviewed TG timeline
  + Agenda: doc:11-19/1418r9
* **LB 243 results (closed on October 15)**
  + **Results**: 238 Approve, 27 Disapprove, 24 Abstain
  + **Approval rate**: 89.8%
  + **1 member changed vote to approve after the LB (approval rate = 90.19%)**
  + **Comments received**: **100 technical comments, 46 editorial/general comments**
    - 10 disapprove voters submitted a same/similar comment
    - Another 4 disapprove voters submitted a same/similar comment
* **MDR (mandatory draft review) started on D4.0 in October**
* **Teleconference calls**
  + Assigned comments and reviewed 23 comments; total 92 unresolved comments

**Motion:** Approve TGba minutes of September 2019 meeting [doc: IEEE 802.11-19/1685r0] and teleconference calls [doc: IEEE 802.11-19/1790r2]

* + Move: Eunsung Park
  + Second: Rojan Chitrakar

Motion passed by unanimous consent.

**Presentations:**

**11-19/1799r1, “Comment Resolutions for D4.0 Protected WUR Frames CIDs”, Rojan Chitrakar (Panasonic):** This submission proposes resolutions of comments received from TGba comment collection (TGba Draft 4.0): CIDs: 4067, 4095 (2 CIDs). CID 4067 has already been presented at a teleconference.

CID 4095: No discussion.

11-19/1799r1 containing 2 CIDs is ready for motion.

**11-19/1873r0, “****CR for CID 4106” Leif Wilhelmsson (Ericsson):**

CID 4106: Some discussion with the commenter related to that in fact the sentence is needed. Although the commenter does not agree entirely with the resolution, he will accept it.

Document 11-19/1873r0, containing 1 CID, is ready for motion.

**11-19/1827r0, “Comment resolutions for 6 GHz”, Minyoung Park (Intel):**

This submission proposes resolutions for multiple comments related to TGba D4.0 with the following CIDs: 4023, 4037, 4061, 4109, 4110, 4114

CID 4023:

Q: It is possible 6 GHz will be decided in Q2 next year, will you open up the draft in the sponsor ballot?

A: That is a possibility if that is what the members want. With a decision concerning 6 GHz, some change will be needed whether we put in a place holder or not.

CID 4037: No discussion.

CID 4061: No discussion.

CID 4109: No discussion.

CID 4110: No discussion.

CID 4114:No discussion.

Document 11-19/1827r0, containing 6 CIDs, is ready for motion.

**11-19/1828r0, “Comment resolutions for WUR channels”, Minyoung Park (Intel):** This submission proposes resolutions for multiple comments related to TGba D4.0 with the following CIDs:

4024, 4025, 4026, 4072, 4124

CID 4024: No discussion.

CID 4025: No discussion.

CID 4026: No discussion.

CID 4072: No discussion.

CID 4124: No discussion.

Document 11-19/1828r0, containing 5 CIDs, is ready for motion.

**11-19/1829r2, “Comment resolutions for 4.3.15b and Annex B”, Minyoung Park (Intel):**

This submission proposes resolutions for multiple comments related to TGba D4.0 with the following CIDs: 4084, 4085, 4086, 4088, 4089, 4107, 4108, 4125, 4130, 4020, 4015, 4090, 4091, 4092, 4126, 4127

CID 4084: No discussion.

CID 4085: No discussion.

CID 4086: No discussion.

CID 4088: No discussion.

CID 4089: No discussion.

CID 4107: No discussion.

CID 4108: No discussion.

CID 4125: No discussion.

CID 4130: No discussion.

CID 4020: No discussion.

CID 4015:

Q: Is it not so that the 2.4 GHz band is mandatory for the AP?

A: I don’t believe the specification ever mandates a specific band. It says one band must be supported, but not which one.

CID 4090: No discussion.

CID 4091: No discussion.

CID 4092: No discussion.

CID 4126: The document is updated based on the original comment and some further discussion in the room. A new revision is created.

CID 4127: No discussion.

Document 11-19/1829r3, containing 16 CIDs, will be ready for motion.

**11-19/1830r0, “Comment resolutions for miscellaneous comments”, Minyoung Park (Intel):** This submission proposes resolutions for multiple comments related to TGba D4.0 with the following CIDs:

4051, 4071, 4123

CID 4051: No discussion.

CID 4071: No discussion.

CID 4123: No discussion.

Document 11-19/1830r0, containing 3 CIDs, will be ready for motion.

**11-19/1844r0, “TGba D4.0 Comment Resolutions for CIDs 4035, 4065 and 4100”, Eunsung Park (LGE):** This submission proposes resolutions for comments of TGba D4.0 with the following 3 CIDs:

4035, 4065, 4100

CID 4035: No discussion.

CID 4065: No discussion.

CID 4100: No discussion.

Document 11-19/1844r0, containing 3 CIDs, is ready for motion.

**11-19/1954r0, “PHY Comment resolution for Clause 30.2” Vinod Kristem (Intel):**

This submission proposes resolutions for comments of TGba Draft D4.0 with the following CIDs: 4133. The contribution is presented by Minyoung.

CID 4133: No discussion.

A change is made to D4.0 which is not directly in response to the comment. A separate motion will be prepared for this change.

Document 11-19/1954r0, containing 1 CID, is ready for motion.

**The meeting is recessed at 3.27pm.**

**Tuesday, November 12, 2019, 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/19/11-19-1743-04-00ba-2019-november-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* Presentations on comment resolutions
* Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 8:01 am.** (about15 persons in the room.)

Minyoung reminds about attendance.

Minyoung summarizes what was achieved yesterday, and proposes we start the contribution related to the correlation test.

Minyoung reports from the Editors meeting that order of ba and az is changed, so we do not need to wait for az. 11be is currently dependent on 11ax.

Minyoung goes through the agenda and asks if there are any questions. No questions or comments received.

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

Minyoung asks if there is a preference with respect to the order of the presentations. No response from the group.

**Presentations:**

**11-19/1838r0, “Studies on False Detection of WUR PPDU as L-STF”, Vinod Kristem (Intel):**

The contribution is presented by Minyoung.

Based on the simulation results reported in this contribution, it seems the proposed correlation requirement of 0.4 is not sufficient and instead it is proposed to increase the threshold to 0.65.

When the test is done with Channel D instead of AWGN (same SNR), it is seen that the cross-correlation value can vary significantly across channel realizations, including changing the order between the examples in the Appendix.

Apart from the discussion of correlation values, it is also emphasized that the issue of falsely detecting a L-STF is believed to be a corner case. It is also pointed out that in fact it is a correct behavior. If a signal is detected the legacy STA should defer in order not to interfere with the ongoing WUR transmission.

Q: Miguel points out that he also has done some simulations and got vary similar results as those reported by Steve.

Q: I also have difficulty to reproduce the results in this presentation. In particular for the results without a channel we should be able to obtain the same results. I also don’t see why a channel with a relatively short impulse response will change the results so much. Basically, the shape of the signal is not changed that much in this case.

Q: On page 5, with 0 dB SNR, I would expect lower correlation values.

**Straw Poll:** Deferred.

**11-19/1913r0, “MC-OOK symbols with low autocorrelation”, Miguel Lopez (Ericsson):**

A new LDR symbol is constructed. It is evaluated using the correlator test, rather than running simulations with an actual receiver. The correlation value is decreased from 0.746 to 0.317.

The performance is then simulated and compared to the previous example. A minor loss in performance is observed, but nothing critical.

Q: How do you generate the sync field?

A: We use the same example waveform a for data.

Q: Good that you also address the multi-antenna as well.

Q: If you plan to bring in a new symbol, I believe some of my colleagues may want to have a chance to add examples as well.

Q: Did you also check the spectrum so it fits the proposed mask?

Y: Yes

**11-19/1882r0, “Comment resolution on correlation test”, Steve Shellhammer (Qualcomm):**

The document provides comment resolutions for CIDs: 4070, 4077, 4078, 4097, 4116, 4117, 4138.

CID 4070: No discussion.

CID 4077: No discussion.

CID 4078: No discussion.

CID 4097: No discussion.

CID 4116: No discussion.

CID 4117: No discussion.

CID 4138: No discussion.

Basically, the first two CIDs are not controversial. The last five relate to needed threshold and need

Q: Based on the presentation by Minyoung, I don’t see any reason to delete the examples.

Steve asks if there is any objection to the first two. No objection reported.

Q: What is the intended way forward for the last five?

A: First we need to align our simulation results, then we agree on requirements, and finally we add examples that meet the requirements. This seems reasonable to target for the January meeting.

Document 11-19/1882r1 containing two CIDs will be ready for motion. (The five last CIDs will be deferred).

**11-19/1950r1, “CR for CID 4060 and 4122” Xiaofei Wang (Interdigital):** This submission proposes resolutions for CIDs 4060 and 4122.The baseline for this comment resolution document is 802.11ba Draft 4.0.

CID 4060: No discussion.

CID 4122: No discussion.

Document 11-19/1950r1, containing 2 CIDs, is ready for motion.

**11-19/1985r0,” Assorted CRs 11ba Draft 4.0”, Menzo Wentink (Qualcomm):**

This document contains assorted comment resolutions for 802.11ba draft 4.0, addressing CIDs: 4034 4068 4073 4121

CID 4034: No discussion.

CID 4068: No discussion.

CID 4073: No discussion.

CID 4121: Q: We have already addressed this in different ways so I believe it is an overkill to add one more mechanism to address this issue.

A: An alternative is to reject this comment, I am fine also with this.

Document 11-1985r0, containing 3 CIDs, is ready for motion. One CID is deferred.

**11-19/1945r0, “Comment Resolutions on WUR Capability element”, Suhwook Kim (LGE):** This submission proposes resolutions for multiple comments related to TGba D1.0 with the following CIDs:4 CIDs: 4014, 4052, 4059, 4082

CID 4014: No discussion.

CID 4052: Based on some discussion in the group, the resolution is updated from accepted to revised.

CID 4059: No discussion.

CID 4082: No discussion.

**The meeting is recessed at 9.59 am.**

**Wednesday, November 13, 2019, 8:00-10:00am**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/19/11-19-1743-05-00ba-2019-november-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* Presentations on comment resolutions
* Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 8:01am.** (about50 persons in the room.)

Minyoung reminds about attendance.

Minyoung goes through the status of the presentations. Only three remains of the original ones, but there may be some in addition.

Minyoung reports that a motion related to the MDR has been added to the set of motions.

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

**Presentations:**

**11-19/1881r1, “Comment Resolutions on BPSK Mark Symbols”, Steve Shellhammer (Qualcomm):** The document provides comment resolutions for CIDs: 4030, 4031, 4036, 4038, 4076, 4098, 4103, 4104, 4118, 4119, 4120, 4128, 4134, 4135.

CID 4030: No discussion.

CID 4031: No discussion.

CID 4036: No discussion.

CID 4038: No discussion.

CID 4076: No discussion.

CID 4098: No discussion.

CID 4103: The resolution is changed from Reject to Revised.

CID 4104: No discussion.

CID 4118: No discussion.

CID 4119: No discussion.

CID 4120: No discussion.

CID 4128: No discussion.

CID 4134: No discussion.

CID 4135: No discussion.

Q: I don’t agree with the resolutions. I believe we spent a lot of time on this and don’t agree the change. Instead I believe the most straight forward solution is to instead change in 11be. I also don’t agree with the statements on complexity. Even if not very complex, it prevents reuse.

A: We have looked at implementation, and the feedback we have is that the change is minor.

Q: I believe it is too late to make this change. We are at D4.0 and this is a PHY change.

Q: I believe the resolution should be Reject instead of Revise.

A: No, I believe it is correct to say Revise.

Q: I am also troubled that we are making late changes, in D4.0, based on work in 11be that just have started up. Are there any problems with current amendments? If not, I don’t believe we should make a change for a future amendment.

A: In essence, I agree with your argument about timing of the different TGs. However, it is a small change for 11ba that removes a roadblock for 11be. I believe this is a reasonable and pragmatic way to solve the problem.

Q: I support the proposed resolution.

Q: I believe it is too late to change. There are already implementations of this. In addition, is there anything when it comes to 11ba that motivates the change?

A: No, there is nothing that motivates this for 11ba. The reason is entirely for 11be.

Q: I strongly support this. I think that it is better to make the change here and make things simpler for the main stream amendments.

**Straw Poll:**

Do you support the comment resolutions in document IEEE 802.11-19/1881r1.

**Y/N/A: 63/17/4**

Bin Tian asks if it is possible to run the corresponding motion directly after the strawpoll, instead of on Thursday. The chair explains that this is possible.

While the text for the motion is prepared, one person requests a role call for the motion.

**At 9:00am the meeting is recessed for 10 minutes in order to prepare for the roll call.**

**Minyoung call the meeting to order at 9:10.**

The person who requested the roll call asks for the roll call to be cancelled.

**Motion:** Approve thecomment resolutions in document IEEE 802.11-19/1881r1 to CIDs: 4030, 4031, 4036, 4038, 4076, 4098, 4103, 4104, 4118, 4119, 4120, 4128, 4134, 4135.

**Move:** Steve Shellhammer

**Second**: Geert Awater

Y/N/A: 80/21/3, Motion passes.

No more presentations available.

**The meeting is recessed at 9:30am.**

**Wednesday, November 13, 2019, 4:00-6:00pm**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/19/11-19-1743-07-00ba-2019-november-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* Presentations on comment resolutions
* Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 4:02 pm.** (6 persons in the room.)

Minyoung reminds about attendance.

Minyoung goes through the agenda and asks if there are any questions. No questions asked.

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

**Presentations:**

**11-19/1821r2, “Comment resolutions for miscellaneous comments” Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D4.0 with the following CIDs (6 CIDs): 4043, 4079, 4081, 4129, 4136, 4137.

CID 4043: No discussion.

CID 4079: No discussion.

CID 4081: No discussion.

CID 4129: No discussion.

CID 4136: No discussion.

CID 4137: No discussion.

Document 11-19/1821r2, containing 6 CIDs, is ready for motion.

**11-19/2073r0, “Comment resolutions for miscellaneous comment II”, Minyoung Park (Intel):**

CID 4027: No discussion.

Document 11-19/2073r0, containing 1 CID, is ready for motion.

No more presentations available.

**The meeting is recessed at 4.17pm.**

**Thursday, November 14, 2019, 10:30am-12:30pm**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/19/11-19-1743-09-00ba-2019-november-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* Presentations on comment resolutions
* Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 10:33 am.** (13 persons in the room.)

Minyoung reminds about attendance.

Minyoung informs that the comments related to the correlation test are withdrawn until the different simulation results are aligned.

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

**Presentations:**

**11-19/1985r1, “Assorted CRs 11ba Draft 4.0”, Menzo Wentink (Qualcomm):**

This document contains assorted comment resolutions for 802.11ba draft 4.0, addressing CIDs: 4034 4068 4073 4121

The first three CIDs have already been covered, but the last one was deferred. This is covered in this

CID 4121: No discussion.

Document 11-19/1985r1, containing 4 CIDs, is ready for motion.

**11-19/1808r0, “11ba D4.0 MAC Comment Resolution for Miscellaneous”, Po-Kai Huang (Intel):** This submission proposes resolutions for comments of TGba Draft D4.0 with the following CIDs: 4016, 4050, 4044, 4045, 4046, 4049, 4042, 4047, 4048.

Eight of the comments are from the same commenter and Po-Kai has discussed these comments with the commenter at this f2f meeting.

CID 4050: No discussion.

CID 4044: No discussion.

CID 4045: No discussion.

CID 4046: No discussion.

CID 4049: No discussion.

CID 4042: No discussion.

CID 4047: No discussion.

CID 4048: No discussion.

CID 4016: No discussion.

Document 11-19/1808r0, containing 9 CIDs, is ready for motion.

**11-1818r1, “Resolutions to LB243 CIDs related to Protected WUR frames”, Rojan Chitrakar (Panasonic):** This contribution proposes resolutions to resolve 6 LB243 comments (CIDs 4053 to 4058) related to the Protected WUR frames.

The document has been discussed already in one of the teleconferences, and Rojan focuses on the changes that has been made in the new revision.

No discussion related to any of the 6 CIDs

Document 11-1818r1, containing 6 CIDs, is ready for motion.

Since the group is done with all the presentations, Minyoung proposes to update the agenda so that the group run all motions except the motion related to the recirculation LB. The updated agenda is shown below.

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* Presentations on comment resolutions
* **Motions:**
  + **MDR**
  + **Comment resolutions**
* TG timeline discussion
* Goal for January 2020 F2F meeting
* Teleconference call schedule
* Recess

Minyoung asks if there are any questions on the updated agenda. No response.

**Motions:**

The motions can also be found in document 11-19/1743r10.

**MDR Motion:** Move to accept TGba MDR and incorporate the changes in [11-19/1765r4] into the draft specification

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4000 (Editorial comments):** Move to accept the comment resolutions in [11-19/1774r0] for CIDs listed below: 4000, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4019, 4021, 4022, 4028, 4032, 4033, 4062, 4063, 4080, 4087, 4094, 4096, 4099, 4101, 4102, 4105, 4111, 4112, 4113, 4115, 4131, 4139, 4140, 4141

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4001:** Move to accept the comment resolutions in [11-19/1792r0] for the CIDs listed below: 4040, 4069

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4002:** Move to accept the comment resolutions in [11-19/1793r2] for the CIDs listed below: 4018

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4003:** Move to accept the comment resolutions in [11-19/1794r1] for the CIDs listed below: 4083, 4132

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4004:** Move to accept the comment resolutions in [11-19/1795r2] for the CIDs listed below: 4029, 4041

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4005:** Move to accept the comment resolutions in [11-19/1797r0] for the CIDs listed below: 4039, 4064, 4066

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4006:** Move to accept the comment resolutions in [11-19/1798r1] for the CIDs listed below: 4142, 4143, 4144, 4145

**Move:** Rojan Chitrakar

**Second:** Xiaofei Wang

Motion passed by unanimous consent

**Motion #4007:** Move to accept the comment resolutions in [11-19/1800r0] for the CIDs listed below: 4074, 4075

**Move:** Rojan Chitrakar

**Second:** Xiaofei Wang

Motion passed by unanimous consent

**Motion #4008:** Move to accept the comment resolutions in [11-19/1799r1] for the CIDs listed below: 4067, 4095

**Move:** Rojan Chitrakar

**Second:** Xiaofei Wang

Motion passed by unanimous consent

**Motion #4009:** Move to accept the comment resolutions in [11-19/1873r0] for the CIDs listed below: 4106

**Move:** Leif Wilhelmsson

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4010:** Move to accept the comment resolutions in [11-19/1827r0] for the CIDs listed below: 4023, 4037, 4061, 4109, 4110, 4114

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4011:** Move to accept the comment resolutions in [11-19/1828r0] for the CIDs listed below: 4024, 4025, 4026, 4072, 4124

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4012:** Move to accept the comment resolutions in [11-19/1829r3] for the CIDs listed below: 4084, 4085, 4086, 4088, 4089, 4107, 4108, 4125, 4130, 4020, 4015, 4090, 4091, 4092, 4126, 4127

**Move:** Po-Kai Huang

**Second:** Xiaofei Wang

Motion passed by unanimous consent

**Motion #4013:** Move to accept the comment resolutions in [11-19/1830r0] for the CIDs listed below: 4051, 4071, 4123

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4014:** Move to accept the comment resolutions in [11-19/1844r0] for the CIDs listed below: 4035, 4065, 4100

**Move:** Eunsung Park

**Second:** Xiaofei Wang

Motion passed by unanimous consent

**Motion #4015:** Move to accept the comment resolutions in [11-19/1954r0] for the CIDs listed below: 4133

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4016:** Move to accept the changes for Clause 30.2.2 (30.2.2 TXVECTOR and RXVECTOR parameters) in [11-19/1954r0]

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4017:** Move to accept the changes for Clause 6.3.94 (PN event report) in [11-19/1798r1]

**Move:** Rojan Chitrakar

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4018:** Move to accept the comment resolutions in [11-19/1882r1] for the CIDs listed below: 4070, 4097

**Move:** Steve Shellhammer

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4019:** Move to accept the comment resolutions in [11-19/1950r1] for the CIDs listed below: 4060, 4122

**Move:** Xiaofei Wang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4020:** Move to accept the comment resolutions in [11-19/1985r1] for the CIDs listed below: 4034, 4068, 4073, 4121

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4021:** Move to accept the comment resolutions in [11-19/1945r1] for the CIDs listed below: 4014, 4052, 4059, 4082

**Move:** Suhwook Kim

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4022:** Move to accept the comment resolutions in [11-19/2039r1] for the CIDs listed below: 4093, 4017

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4023:** Move to accept the comment resolutions in [11-19/1821r2] for the CIDs listed below: 4043, 4079, 4081, 4129, 4136, 4137

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4024:** Move to accept the comment resolutions in [11-19/2073r0] for the CIDs listed below: 4027

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Motion passed by unanimous consent

**Motion #4025:** Move to accept the comment resolutions in [11-19/1808r0] for the CIDs listed below: 4016, 4050, 4044, 4045, 4046, 4049, 4042, 4047, 4048

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Y/N/A: 6/1/5, motion passes

**Motion #4026:** Move to accept the comment resolutions in [11-19/1818r1] for the CIDs listed below: 4053, 4054, 4055, 4056, 4057, 4058

**Move:** Rojan Chitrakar

**Second:** Eunsung Park

Y/N/A: 5/0/6, motion passes

**Timeline discussion**.

The updated timeline from now until September 2020 is shown below. The update reflects that it is expected there will be changes to the current draft so that Draft 6.0 is generated out of the January meeting. The goal is to have Draft 6.0 approved for SA ballot in March. The time for RevCom (September 2020) is unchanged. It can also be noted that the timeline also depends on the progress of 11md,11ax, and 11ay.

* + **November**: TGba Draft 5.0 – WG Recirculation LB
* **2020:**
  + **January**: TGba Draft 6.0 – WG recirculation LB
  + March: TGba Draft 6.0 (unchanged draft), EC approval to SA ballot (SB)
  + March-April: Initial SB (Draft 6.0)
  + **May**: 1st recirculation SB (Draft 7.0)
  + June: 2nd recirculation SB (Draft 8.0)
  + **July**: 3rd recirculation SB (Draft 9.0, unchanged draft)
  + **September**: RevCom

**Goal for January 2020**

Minyoung goes through the goals for the January meeting, which are shown below.

* Comment assignment and resolution on D5.0
* Review timeline

**Teleconference Call Schedule**

The proposed schedule is shown below:

* December 16th 10:00 ET (1 hour)
* January 6th 23:00 ET (2 hours)

Except the Motion for the WG recirculation letter ballot, which is scheduled for the PM2 session, everything on the agenda has been addressed.

**The meeting is recessed at 11.34pm.**

**Thursday, November 14, 2019, 4:00-6:00pm**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/19/11-19-1743-12-00ba-2019-november-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
  + **Motion: WG recirculation letter ballot**
* Adjourn

**Chair Minyoung Park (Intel) calls the meeting to order at 4:00 pm.** (10 persons in the room.)

Minyoung reminds about attendance.

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

**Motion:** WG Recirculation LB Motion

* Having approved comment resolutions for all of the comments received from LB 243 on P802.11ba D4.0 as contained in document 11-19/1770r7,
* Instruct the editor to prepare Draft 5.0 incorporating these resolutions and,
* Approve a 15 day Working Group Recirculation Ballot asking the question “Should P802.11ba D5.0 be forwarded to Standards Association (SA) Ballot?”

**Move:** Po-Kai Huang

**Second:** Eunsung Park

Y/N/A: 10/0/0, motions passes

**The meeting is adjourned without objection at 4.04pm.**