IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IEEE 802.11ba Task Group Meeting Minutes for May Meeting, Atlanta, GA, USA | | | | |
| Date: 2019-03-15 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Leif Wilhelmsson | Ericsson AB | Mobilvägen 1, 22632 Lund, Sweden | +46-706-216956 | [leif.r.wilhelmsson@ericsson.com](mailto:leif.r.wilhelmsson@ericsson.com) |

Abstract

Rev 0: Meeting Minutes for the IEEE 802.11ba TG sessions held in Atlanta, GA, USA, May 12-17, 2019.

**Monday, May 13 2019, 10:30-12:30 am**

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: https://mentor.ieee.org/802.11/dcn/19/11-19-0617-02-00ba-2019-may-tgba-agenda.pptx

* + Call meeting to order
  + Call for submissions
  + Review agenda and approval
  + IEEE 802 and 802.11 IPR Policy and procedure
  + Participation in IEEE 802 Meetings
  + **Motion**: March 2019 meeting (doc: IEEE 802.11-19/557r0), ad-hoc meeting (doc: IEEE 802.11-19/674r0) and teleconference minutes (doc: IEEE 802.11-19/679r1) approval
  + Summary from March 2019 Meeting
  + Presentations on comment resolution
  + Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 10.30 am.** (about40 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 eight sessions in total.

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

* Complete comment resolution on TGba D2.0 (LB237) and instruct the editor to generate P802.11ba D3.0
* Approve WG recirculation letter ballot
* Review TG timeline

Minyoung goes through the list of submissions. (slides 9-11).

Minyoung goes through the agenda for the week (slide 12). The idea is to begin with the easy CIDs to not get stuck and wait with the more controversial ones. Minyoung encourages off-line discussion and asks if there are any questions or comments. No questions of comments from the group.

**Motion to approve the agenda**

**Move:** Yunsong Yang

**Second:** Eunsong Park

Question/Comment (Q): Joe Levy uploaded a contribution and asks how Minyoung wants to deal with that in the agenda.

Answer (A): We have a full agenda with CIDs, so I believe we need to address this later in the week. Minyoung also encourage off-line discussion.

No objection on the agenda.

Motion passed by unanimous consent.

Minyoung goes through the slides “Participants have a duty to inform the IEEE” (slide 14) and “Ways to inform IEEE” (slide 15).

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 16) and “Patent-related information” (slide 17).

Minyoung reads through “Participation in IEEE 802 Meetings” (slide 18), and encourages people to read through the references on slides 19-21.

Minyoung goes through the Summary from March 2019 Meeting, Ad-hoc Meeting, and Teleconference Calls, shown below.

* **March meeting: TGba worked on the comment resolution on D2.0**
  + 40% completed (327 comments resolved out of 827)
  + Reviewed TG timeline
* **TGba held an ad-hoc meeting at the Bay area on April 17-18**
  + ~150 CIDs ready for motion
* **Three teleconference calls**
  + 67 CIDs ready for motion
* **66% comment resolution complete**
  + 283 unresolved CIDs
* **Agenda: doc:11-19/242r8**

**Motion:** Approve TGba minutes of March 2019 meeting [doc: IEEE 802.11-19/557r0], ad-hoc meeting [doc: IEEE 802.11-19/674r0] and teleconference call [doc: IEEE 802.11-19/679r2]

**Move:** Yunsong Yang

**Second:** Xiaofei Wang

Motion passed by unanimous consent.

**Presentations:**

**11-19/0651r2, “Comment Resolutions on Sync Field Comments”, Steve Shellhammer (Qualcomm):** The following CID is discussed: 2776.

CID 2776: No discussion.

11-19/0651r2, containing 1 CID, is ready for motion.

**11-19/0782r0, “CR on TX LO comment”, Geert Awater (Qualcomm):** The following CID is discussed: 2111. The presentation is made by Richard van Nee.

The resolution is changed from accepted to revised as the proposal in not exactly following the proposed resolution.

11-19/0782r1, containing 1 CID, will be ready for motion.

**11-19/0711r0, “Comment resolutions for miscellaneous comments – part 3” Minyoung Park (Intel):** 2008, 2028, 2058, 2083, 2131, 2133, 2241, 2265, 2266, 2310, 2477, 2536, 2613, 2654

CID 2008: No discussion.

CID 2028: No discussion.

CID 2058: No discussion.

CID 2083: No discussion.

CID 2131: No discussion.

CID 2133: No discussion.

CID 2241: No discussion.

CID 2477: No discussion.

CID 2265: No discussion.

CID 2266: No discussion.

CID 2310: No discussion.

CID 2536: No discussion.

CID 2613: No discussion.

CID 2654: No discussion.

Q: Related to 2241, you did not show what should be included in the new sub-sections.

A: My idea was to just add these headings, but with the same text as such.

11-19/0711r1, containing 14 CIDs, will be ready for motion.

**11-19/0790r0, “CR for Misc. MAC CIDs” Xiaofei Wang (Interdigital)**

This submission proposes resolutions for the following CIDs: 2313, 2342, 2352, 2359 and 2351.

CID 2342: No discussion.

CID 2352: No discussion.

CID 2359: No discussion.

CID 2313: No discussion.

CID 2351: No discussion.

11-19/0790r0, containing 5 CIDs, is ready for motion.

**11-19/0789r0, “CR for CID 2347 and 2699” Xiaofei Wang (Interdigital)**

This submission contains the proposed CR for CID 2347 and 2699.

CID 2699: No discussion.

CID 2347: No discussion.

11-19/0789r0, containing 2 CIDs, is ready for motion.

**11-19/0761r0, “Resolutions to CIDs related to Protected WUR frames”, Yunsong Yang (Huawei):**

This submission contains the proposed CR for CIDs: 2318, 2333, 2334, 2335, 2336, 2337, 2341, 2350, 2418, 2419, 2421, 2522, 2555, 2576, 2578, 2579, 2823, 2824

CID 2418: No discussion.

CID 2419: No discussion.

Q: Do you have specific rules for what the non-AP STA does if it received non -protected frames? It says that a protected frame should be discarded but I believe you should also add that a non-protected frame should be discarded.

A: The text you are asking for will be added elsewhere.

Q: It sounds like you are proposing text assuming certain decisions in TGm. It must be based on the current draft of 11md, not on something being discussed.

CID 2350: Deferred for the moment based on the comment above that a resolution must be based on what actually is available in 11md.

CID 2576: Deferred for the moment based on the comment above that a resolution must be based on what actually is available in 11md.

CID 2341: No discussion.

CID 2318: No discussion.

CID 2333: No discussion.

CID 2334: No discussion.

CID 2335: No discussion.

CID 2336: No discussion.

CID 2337: No discussion.

CID 2421: No discussion.

CID 2522: No discussion.

CID 2555: No discussion.

CID 2578: No discussion.

CID 2579: No discussion.

CID 2823: No discussion.

CID 2824: No discussion.

Run out of time.

Need off-line discussion to move forward.

**Recess 12.30 pm.**

**Monday, May 13 2019, 7:30-9:30 pm**

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/19/11-19-0617-03-00ba-2019-may-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 7.31 pm.** (about15 persons in the room.)

Minyoung reminds about attendance.

Minyoung goes through the agenda for the evening session and asks if there are any questions or comments. No questions or comments so the proposed agenda will be used.

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

**Presentations:**

**11-19/0742r1, “Comment Resolutions on Power Management”, Suhwook Kim (LGE)**

This submission proposes resolutions for multiple comments related to TGba D1.0 with the following CIDs: 21 CIDs: 2022, 2052, 2121, 2122, 2219, 2220, 2260, 2426, 2453, 2609, 2680, 2731, 2732, 2745, 2768, 2769, 2773, 2774, 2802, 2803, 2805

CID 2022: No discussion.

CID 2052: No discussion.

CID 2121: No discussion.

CID 2122: No discussion.

CID 2219: No discussion.

CID 2220: No discussion.

CID 2260: No discussion.

CID 2426: No discussion.

CID 2453: No discussion.

CID 2609: No discussion.

CID 2680: No discussion.

CID 2731: No discussion.

CID 2732: No discussion.

CID 2745: No discussion.

CID 2768: No discussion.

CID 2769: No discussion.

CID 2773: No discussion.

CID 2774: No discussion.

CID 2802: No discussion.

CID 2803: No discussion.

CID 2805: No discussion.

Q: Regarding 2022, I believe you should add a footnote saying that it is implementation dependent. Otherwise I believe the comment will come back.

A: I agree.

As a result, the resolution is changed from Rejected to Revised

Q: In Table 30-2, I believe you should add the word “successful”

A: OK

Q: About 2219, this wording has been accepted in TGax.

A: OK. Resolution changed from rejected to accepted.

11-19/0742r2, containing 21 CIDs, will be ready for motion.

**11-19/0744r0, “MAC CR on Channel Access”, Ming Gan (Huawei):** This submission proposes resolutions of comments received from TGba LB237. (The proposed change is based on TGba Draft 2.0): 2039 2040 2135 2147 2149 2200 2232 2267 2428 2684 2739 2788 (12 CIDs)

CID 2039: Q: There is a typo in the added text

CID 2040: After some discussion a note is added saying that the WUR AP should initialize the TXOP through a frame that is not a WUR frame. Also, it is added that the WUR AP should initiate a TXOP that contains a WUR frame with a frame that sets NAV for the duration of the TXOP. Decided to also have more offline discussions.

CID 2135: No discussion.

CID 2147: No discussion.

CID 2149: No discussion.

CID 2200: No discussion.

CID 2232: No discussion.

CID 2267: No discussion.

CID 2428: No discussion.

CID 2684: Resolution changed from Revised to Rejected.

CID 2739: No discussion.

CID 2788: No discussion.

Some discussion related to for CID 2039, 2267, 2739 2684, these will be updated for r1.

11-19/0744r1, containing 12 CIDs, will be ready for motion.

**11-19/0576r1, “LB237 CR WUR FDMA”, Yongho Seok (Mediatek):** This submission proposes resolutions of comments received from TGba LB237. (The proposed change is based on TGba Draft 2.0.)CIDs: 2702, 2705, 2440, 2703, 2704, 2757, 2706, 2449, 2519, 2634, 2804, 2451, 2050, 2472, 2049, 2051, 2048, ~~2056~~, 2659, 2159, 2290, 2294, 2302 (~~20~~22 CIDs)

CID 2702: No discussion.

CID 2705: No discussion.

CID 2440: No discussion.

CID 2703: No discussion.

CID 2704: No discussion.

CID 2757: No discussion.

CID 2706: No discussion.

CID 2449: No discussion.

CID 2519: No discussion.

CID 2634: No discussion.

CID 2804: No discussion.

CID 2451: No discussion.

CID 2050: No discussion.

CID 2472: No discussion.

CID 2049: No discussion.

CID 2051: No discussion.

CID 2048: No discussion.

CID 2659: No discussion.

CID 2159: No discussion.

CID 2290: No discussion.

CID 2294: No discussion.

CID 2302: No discussion.

Q: 2705, 2704, 2706, I have some questions related to definition of secondary

Q: I have some question related to 2703.

Q: I have some question on 2048

Based on the concern related to CIDs 2703,2704,2705,2706, and 2048 are deferred.

011-19/576r2 without CID 2703, 2704, 2705, 2706, and 2048 will be ready for motion.

**Recess 9.32 pm.**

**Tuesday, May 14 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/19/11-19-0617-04-00ba-2019-may-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 8:00 am.** (about15 persons in the room.)

Minyoung reminds about attendance.

Roughly 70 CIDs addressed, which is about 25% of the CIDs for the week.

Minyoung goes through the agenda and asks if there are any questions or comments. No questions or comments so the proposed agenda will be used.

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

**Presentations:**

**11-19/0742r2, “Comment Resolutions on Power Management”, Suhwook Kim (LGE)**

This is a continuation of the presentation yesterday discussing CID 2022.

CID 2022: The resolution has been changed from Rejected to Revised based on the discussion yesterday, and Suhwook just presents the revised resolution.

11-19/0742r2, containing 21 CIDs, is ready for motion.

**11-19/0741r3, “Comment Resolutions on WUR Capability element”, Suhwook Kim (LGE):**

This submission proposes resolutions for multiple comments related to TGba D1.0 with the following 16 CIDs: 2115, 2138, 2157, 2165, 2259, 2443, 2444, 2507, 2596, 2658, 2718, 2719, 2720, 2721, 2787, 2800

CID 2115: Q: I have had similar comments and also stated that the in the FRD only 2.4 and 5 GHz bands are covered.

CID 2138: No discussion.

CID 2157: No discussion.

CID 2165: No discussion.

CID 2259: No discussion.

CID 2443: No discussion.

CID 2444: Q: I believe the meening is different for an AP and a non-AP STA. Can we make a distinction also in the description?

A: Yes. The resolution is updated accordingly.

CID 2507: No discussion.

CID 2596: No discussion.

CID 2658: No discussion.

Returning to CID 2443: The HDR is mandatory for the AP, so it does not make sense. The resolution is changed from Accepted to Rejected.

CID 2718: The resolution is updated in that “agree in principle” is removed.

CID 2719: No discussion.

CID 2720: The resolution is changed from Rejected to Revised.

CID 2721: No discussion.

CID 2787: No discussion.

CID 2800: No discussion.

11-19/0741r4, containing 16 CIDs, will be ready for motion.

**11-19/0484r2, “WUR Short Wake-up Frame” Menzo Wentink (Qualcomm):** The document provides comment resolutions for CIDs 2416, 2462, 2367.

Q: The short wake-up frame is not a wake frame

Q: Last line on page 4, I believe in addition to be random it should also not be the same as the previous one.

A: I don’t think it is a big deal since the likelihood is so small, but I am happy to add this restriction.

Q: I believe adding short wake-up frame format should be motivated by that there is a gain.

A: The gain is that it is shorter, and in addition it is an optional feature.

Q: I believe it is not sufficient that it is random, it should also be unique so that it cannot coincide with a WUR ID already used.

A: That you select an unassigned WUR ID is the default, so I believe there is no need to add this explicitly.

**Straw Poll:** Do you support the resolutions Menzo presented?

**Y/N/A:** 8/2/8

11-19/0484r3, containing 3 CIDs, will be ready for motion. (a typo was found and corrected in r2)

**11-19/0803r0, “CR for 30.4.4”, Woojin Ahn (WILUS):**

This submission proposes resolutions for comments related to TGba D1.0 with the following CIDs

2164, 2206, 2430, 2524, 2526

CID 2164: No discussion.

CID 2206: No discussion.

CID 2430: No discussion.

CID 2524: No discussion.

CID 2526: No discussion.

With respect to 2430, I would not say that the commenter is right because I don’t think he is. It is a bit strange to say the commenter in right and then reject the comment. The reason for rejection is updated accordingly.

11-19/0803r1, containing 5 CIDs, will be ready for motion.

**11-19/0738r0, “Comment Resolutions for Off WG Comments”, Steve Shellhammer (Qualcomm):** The document provides comment resolutions for CIDs 2628, 2629, 2678, 2679.

CID 2628: No discussion.

CID 2629: No discussion.

CID 2678: No discussion.

CID 2679: No discussion.

11-19/0738r0, containing 4 CIDs, is ready for motion.

**11-19/0424r1, “Comment Resolutions on BPSK Mark Comments”, Steve Shellhammer (Qualcomm):** The document provides comment resolutions for CIDs: 2110, 2563, 2652, 2660, 2792.

CID 2110: No discussion.

CID 2652: No discussion.

CID 2653: No discussion.

CID 2660: No discussion.

CID 2792: No discussion.

Q: In my opinion adding a BPSK Mark is not really necessary since we have a CRC.

Q: In the last meeting, I believe we talked about simulation results supporting the need for this.

A: I don’t have a presentation, but I can tell you that we have performed testing and it does performs as expected. It is also an implementation issue how the classification is done in the receiver.

Q: I believe you missed to make the change in 31.2.11

A: Thanks, I will take a look at this.

Q: In Fig 31-13, The TX Data block should not be there. It has been taken care of, so just don’t put it back.

A: OK. Thanks for pointing it out.

**Straw Poll:** Do you support these resolutions?

**Y/N/A:** 9/0/6

11-19/0424r2, containing 5 CIDs, will be ready for motion.

**11-19/0749r0, “11ba D2.1 MAC Comment Resolution for Miscellaneous CIDs Part II”, Po-Kai Huang (Intel):** This submission proposes resolutions for comments of TGba Draft D2.1 with the following CIDs:2784, 2785, 2055, 2037, 2176, 2216, 2217, 2221, 2222, 2224, 2682, 2695, 2199, 2229

CID 2784: No discussion.

CID 2785: No discussion.

CID 2055: No discussion.

CID 2037: No discussion.

CID 2682: No discussion.

Run out of time.

11-19/0749r0, containing the CIDs 2784,2785,2055,2037,2682, is ready for motion.

**Recess at 10.02 am**

**Tuesday, May 14 2019, 4:00-6:00 pm**

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/19/11-19-0617-05-00ba-2019-may-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 4:00 pm.** (about15 persons in the room.)

Minyoung reminds about attendance.

Minyoung reports that there are about 50 CIDs left for PHY and 110 CIDs left for MAC.

Minyoung goes through the agenda and asks if there are any questions or comments. No questions or comments so the proposed agenda will be used.

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

**Presentations:**

**11-19/0729r1, “Comment Resolutions for clause 30.9.2 and 30.9.3 Protected WUR frames – part 2” Rojan Chitrakar (Panasonic):** This submission proposes resolutions of comments received from TGba comment collection (TGba Draft 2.0). The following CIDs are addressed: 2314, 2315, 2316, 2317, 2319, 2320, 2323, 2324, 2325, 2326, 2327, 2559, 2582, 2583, 2587, 2588, 2589

CID 2559: No discussion.

CID 2582: No discussion.

CID 2583:

Q: I believe it is better to spell out packet number, rather than using PN.

A: Alfred has a CID that deals with this, so this will be changed.

Some minor editorial errors are identified and changed related to this CID.

Discussion about WTPN and WIPN, and the fact that they always are identical.

CID 2587: No discussion.

CID 2316: No discussion.

CID 2317: Removed. May be a duplicated CID.

CID 2319: No discussion.

CID 2320: The motivation for rejection is slightly updated.

CID 2323: Resolution changed from Rejected to Revised.

CID 2324: Resolution changed from Rejected to Revised.

CID 2325: Resolution changed from Rejected to Revised.

CID 2326: Resolution changed from Rejected to Revised.

CID 2327: No discussion.

Document 729r2, with the 13 CIDs above, is ready for motion

**11-19/0744r1,” MAC CR on Channel Access”, Ming Gan (Huawei):**

This is a continuation with updated resolutions for CID 2039, 2267, 2739 2684

CID 2039: No discussion.

CID 2040: No discussion.

CID 2739: No discussion.

CID 2684: No discussion.

Document 11-19/0744r1, containing 12 CIDs, is ready for motion.

**11-19/0576r2, “LB237 CR WUR FDMA”, Yongho Seok (Mediatek):**

This is a continuation of the presentation in the Monday evening session, covering CIDs

2703, 2704, 2705, 2706, and 2048

CID 2703: No discussion. Reason for discussion updated compared to r1.

CID 2704: No discussion.

CID 2705: The reason for rejection is updated

CID 2706: The motivation updated

CID 2048: The motivation updated

Document 11-19/0576r2, containing 22 CIDs, is ready for motion.

Note: There is a r3 on the server which is also used for the motion. According to my notes r2 was ready for motion. The difference between r2 and r3 seems to be that the changes have been accepted in r3, whereas in r2 “track changes is on”

**11-19/0399r2, “Proposed resolution for Subclause 9.10.3.2” Kaiying Lu (Self):**

This submission proposes resolutions for multiple comments related to TGba D2.0 subclause 9.10.3.1 & 9.10.3.2 & 30.8.2 with the following CIDs: 2127, 2168, 2169, 2182, 2387, 2389, 2390, 2391, 2427, 2460, 2461, 2520, 2521, 2597, 2598, 2681, 2809, 2162, 2685

This is a continuation of an earlier presentation in the last f2f.

CID 2387: No discussion.

CID 2389: No discussion.

CID 2390: No discussion.

CID 2391: No discussion.

CID 2427: No discussion.

CID 2460: No discussion.

CID 2461: No discussion.

CID 2520: No discussion.

CID 2521: No discussion.

CID 2597: No discussion.

CID 2598: No discussion.

CID 2681: No discussion.

CID 2809: The CID will be handled by Alfred. The changes in the document are removed.

CID 2685: Fixed length is replaced by FL and variable length by VL.

Q: On page 6, related to CID 2127, there was another resolution this morning in document 741r4 that may conflict. As a result, CID 2127 is deferred.

11-19/0399r3, including 17 CIDs, will be ready for motion.

**11-19/0581r0, “Comment resolutions for identifiers of WUR frames” Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D2.0 with the following CIDs (8 CIDs): 2154, 2156, 2202, 2203, 2406, 2464, 2525, 2741

CID 2154: Some editorial errors are found and fixed by Alfred. No discussion.

CID 2156: The CID is deferred.

CID 2202: No discussion,

CID 2203: No discussion.

CID 2406: No discussion.

CID 2464: No discussion.

CID 2525: No discussion.

CID 2741: No discussion.

11-19/0581r1, containing 7 CIDs, will be ready for motion. (2156 is deferred)

**11-19/0585r0, “Comment resolutions for protected WUR frames – part 1”, Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D2.0 with the following CIDs (18 CIDs):2057, 2067, 2118, 2420, 2518, 2557, 2560, 2580, 2581, 2820, 2821, 2822, 2329, 2331, 2339, 2321, 2322, 2328

CID 2057: No discussion.

CID 2067: No discussion.

CID 2118: No discussion.

CID 2420: No discussion.

CID 2518: No discussion.

CID 2557: No discussion.

CID 2560: Deferred, will discuss with Rojan

CID 2580: No discussion.

CID 2581: No discussion.

CID 2820: No discussion.

Out of time

11-19/0585r0, containing the 9 CIDs discussed above, will be ready for motion.

**Recess at 6.00pm**

**Wednesday, May 15 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/19/11-19-0617-06-00ba-2019-may-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 8:00 am.** (about15 persons in the room.)

Minyoung reminds about attendance.

Minyoung goes through the status regarding how many CIDs have been covered up until now.

Minyoung presents the agenda and asks if there are any comments or questions. No response so the proposed agenda will be used.

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

**Presentations:**

1**1-19/802r1, “CR for 30.3” Woojin Ahn (WILUS):**

This submission proposes resolutions for comments related to TGba D2.1 with the following CIDs (17 CIDs): 2041, 2042, 2170, 2171, 2201, 2393, 2400, 2463, 2512, 2570, 2687, 2688, 2690, 2740, 2781, 2782, 2815

CID 2570: No discussion.

CID 2041: No discussion.

CID 2688: No discussion.

CID 2782: No discussion.

CID 2393: Q: There is a state diagram in the PHY section, have you checked so there is no contradictions?  
A: Yes, I have checked.

CID 2690: No discussion.

CID 2042: The resolution is slightly updated. A note is added.

CID 2170: No discussion.

CID 2687: No discussion.

CID 2815: No discussion.

CID 2781: No discussion.

CID 2740: No discussion.

CID 2201: No discussion.

CID 2400: No discussion.

CID 2463: No discussion.

CID 2512: No discussion.

CID 2171: Some discussion whether the resolution should be changed from Rejected to Revised. The resolution Rejected remains

11-19/0802r2, containing 17 CIDs, will be ready for motion.

**11-19/0729r3, “Comment Resolutions for clause 30.9.2 and 30.9.3 Protected WUR frames – part 2” Rojan Chitrakar (Panasonic):**

This is a continuation of the presentation from yesterday covering the four remaining ones.

CID 2588: No discussion.

CID 2589: The resolution is updated based on comments from the Technical Editor.

CID 2314: No discussion.

CID 2315: No discussion.

11-19/0729r4, containing 16 CIDs, will be ready for motion. (CID 2317 removed)

**11-19/0761r1, “Resolutions to CIDs related to Protected WUR frames” Yunsong Yang (Huawei):**

This is a continuation of the presentation of r0.

CIDs 2350 and 2576 are changed from Revised to Rejected

CIDs 2318

Run out of time.

**Recess at 10.07 am.**

**Wednesday, May 15 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/19/11-19-0617-06-00ba-2019-may-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 1:30 pm.** (about25 persons in the room.)

Minyoung reminds about attendance.

Minyoung presents the agenda and asks if there are any comments or questions. No response so the proposed agenda will be used.

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

Menzo announces that 484r4 has been uploaded, and contains a minor change compared to r3. r4 will be used for the motion and people are encouraged to look at the changes before the motion.

The agenda is updated based on comments by Rui, his two presentations are withdrawn and he has instead uploaded a new one replacing these. The document number of the new one is 11-19/903r1.

**Presentations:**

**11-19/0645r1, “Comment resolutions for HDR/LDR related comments”, Minyoung Park (Intel):** This submission proposes resolutions for multiple comments related to TGba D2.0 with the following CIDs (16 CIDs):2059, 2071, 2072, 2476, 2442, 2527, 2303, 2304, 2305, 2306, 2348, 2349, 2358, 2360, 2361, 2362

Minyoung explains that most of the comments fall in one of two categories. One category wants to make HDR optional on AP side. Another category wants to make it mandatory on STA side. All these will be rejected as we will stick to the current proposal and Minyoung has already informed the different commenters about this off-line.

CID 2059: The resolution is changed from Accepted to Rejected. The suggested clarification is not needed as it is clarified later in the text.

CID 2071: kbps is replaced by kb/s.

CID 2072: No discussion.

CID 2476: No discussion.

CID 2442: No discussion.

CID 2527: No discussion.

CID 2303: No discussion.

CID 2304: No discussion.

CID 2305: No discussion.

CID 2306: No discussion.

CID 2348: No discussion.

CID 2349: No discussion.

CID 2358: No discussion.

CID 2360: No discussion.

CID 2361: No discussion.

CID 2362: No discussion.

11-19/0645r2, containing 16 CIDs, will be ready for motion.

**11-19/0786r1, “Proposal for a transmit mask for the WUR-Sync and WUR-Data fields”, Minyoung Park (Intel):**

CID 2062:

Q: Do you test the sync and the data together or separately?

A: Together.

Q: The flat part is 5 MHz?

A: No, it is 4.5 MHz.

11-19/0786r1, containing 1 CID, is ready for motion.

**11-19/0761r1,” Resolutions to CIDs related to Protected WUR frames” Yunsong Yang (Huawei):**

This is a continuation of the presentation in am1.

Yunsong goes through the text for the various resolutions in some more detail. The overall ideas for the resolutions have already been presented.

11-19/0761r2, including 18 CIDs, will be ready for motion.

**11-19/0399r4, “Proposed resolution for Subclause 9.10.3.2” Kaiying Lu (Self):**

Continuation of a previous presentation. CID 2127 was deferred in r3, and this CID is now considered.

CID 2127: A conflict with another resolution was identified. This has now been addressed in r4 of this document.

11-19/0399r4, containing 18 CIDs, is ready for motion.

**11-19/0834r1, “Proposed resolution for Subclause 9.10.3.4” Kaiying Lu (Self):**

This submission proposes resolutions for multiple comments related to TGba D2.0 subclause 9.10.3.4 with the following CIDs: 2384, 2601, 2649, 2735, 2736, 2812, 2813

CID 2384: No discussion.

CID 2601: No discussion.

CID 2649: No discussion.

CID 2735: No discussion.

CID 2736: No discussion.

CID 2812: No discussion.

CID 2813: Q: I believe there still is an inconsistency.

A: It is vendor specific so I believe the description is fine. (Answer by Technical Editor)

Based on the discussion the resolution is updated.

11-19/0834r2, including 7 CIDs, will be ready for motion.

**11-19/0861r1, “Comment resolution for CIDs on Clause 31.2.8”, Vinod Kristem (Intel):**

This submission proposes resolutions for comments of TGba Draft D2.0 with the following CIDs: 2108, 2274, 2275, 2489, and 2631.

CID 2489:

Q: I believe this resolution overlaps with another resolution.

A: I am aware of this and they are aligned.

Q: Is it possible to be more specific when it comes to ON and OFF?

A: OK. I will add WUR-Sync ON and OFF

Q: I am not sure you can use other methods to generate the signal.

A: The formula just says what the signal should look like, but not how to generate it so I believe it is OK.

Q: I believe this description gives too much freedom for generation of the signal.

A: We have discussed this for a very long time, and basically this is the compromise we arrived at. If you have other suggestions, you are free to work on it.

Run out of time.

The proposed resolution is slightly updated based on the comments from the group. After this update there was consensus in the group with respect to this CID. Since the other CIDs are along the same lines, it was agreed that Vinod will make the corresponding changes on these CIDs to prepare for a continuation of the presentation tomorrow.

In addition, it is noted that the updated resolutions in 11-19/0861 will not be consistent with the resolutions in 11-19/649, which was presented in the ad-hoc f2f. 11-19/0649 is therefore added to the agenda as the resolutions need to be updated accordingly.

**The session is recessed without objection at 3.31pm.**

**Thursday, May 16 2019, 10:30-12:30 am**

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: <https://mentor.ieee.org/802.11/dcn/19/11-19-0617-08-00ba-2019-may-tgba-agenda.pptx>

* + Call meeting to order
  + IEEE 802 and 802.11 IPR Policy and procedure
  + Presentations on comment resolutions (1.5 hour)
  + **Motions: Comment resolutions**
  + Presentations on comment resolutions, **motions on CR**
  + Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 10:30 am.** (about40 persons in the room.)

Minyoung reminds about attendance.

Minyoung explains the plan for progressing in the agenda. There are around 55 CIDs left. The target is to resolve all resolution and go for a new Letter Ballot.

Minyoung presents the agenda and asks if there are any comments or questions.

Document 11-19/903 is updated to r1.

Motion to adopt the new agenda:

**Move:** Yunsong Yang

**Second:**Po-Kai Huang

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

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

**Presentations:**

**11-19/0861r2, “Comment resolution for CIDs on Clause 31.2.8”, Vinod Kristem (Intel):**

This is a continuation of the presentation on Wednesday. The text has been updated based on the agreement in the group during the previous session.

CID 2489: No discussion.

CID 2108: No discussion.

CID 2274: No discussion.

CID 2275: No discussion.

CID 2631: No discussion.

11-19/0861r2, containing 5 CIDs, is ready for motion.

**11-19/0649r2**, **“PHY Comment resolution for Clause 31.2.8”, Vinod Kristem (Intel):** Based on discussions and resolutions to the CIDs in 11-19/0861r2, CID 2104 in 11-19/0649r1 needs to be updated in order to be consistent with 861. All CIDs in 11-19/0649r1 was made ready for motion in the ad-hoc f2f meeting.

CID 2104: Updated along the same lines as for the resolution above to be consistent. No discussion.

11-19/0649r2, containing 8 CIDs, is ready for motion.

**11-19/0687r2, “PHY Comment resolution for Clause 31.2.4”, Vinod Kristem (Intel):** This submission proposes resolutions for comments of TGba Draft D2.0 with the following CIDs: 2482, 2483, 2484, 2485, 2486, 2487, 2089, 2090, 2091, 2092, 2093, 2094, 2623, 2624, 2625, 2626, 2627, 2277, and 2278.

The comments are related to that the word “can” should not be used. All CIDs are resolved in the similar spirit, and there are no comments on any of the resolutions.

11-19/0697r2, containing 19 CIDs, will be ready for motion.

**11-19/0710r3, “PHY Comment resolution for MC-OOK”, Vinod Kristem (Intel):** This submission proposes resolutions for comments of TGba Draft D2.0 with the following CIDs: 2662, 2475, 2661, 2273, 2276, 2311, 2076, 2077, 2078, 2079, 2620, and 2692.

CID 2662:

Q: I believe MC-OOK is defined twice

A: OK, as long as there is no contradiction we leave it for now at least.

Q: I suggest to write multicarrier, rather than Multicarrier and on-off instead of On-Off

A: I can do that.

CID 2475: No discussion.

CID 2661: No discussion.

CID 2273: No discussion.

CID 2276: No discussion.

CID 2311: No discussion.

CID 2076: No discussion.

CID 2077: No discussion.

CID 2078: No discussion.

CID 2079: No discussion.

CID 2620: No discussion.

CID 2692: No discussion.

Q: I am speaking against the resolutions, since I believe it is not a multi-carrier signal but a single carrier signal.

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

**Y/N/A:** 18/2/5

11-19/0710r4, containing 12 CIDs, will be ready for motion.

11-19/0585r0

This is a continuation of a presentation of the contribution.

CID 2821: No discussion.

CID 2822: A typo is spotted in the resolution

CID 2329: No discussion.

CID 2331: No discussion.

CID 2339: No discussion.

CID 2321: No discussion.

CID 2322: The word “Revised” is added. No discussion.

CID 2328: No discussion.

Q: Wake up should be replaced by Wake-up

11-19/585r1, containing 18 CIDs, will be ready for motion.

**11-19/581r2, “Comment resolutions for identifiers of WUR frames”, Alfred Asterjadhi (Qualcomm):** The resolution text has been slightly updated compared to what was shown in r1

During the presentation, the resolution text is again slightly updated.

11-19/581r3, containing 8 CIDs, will be ready for motion.

**11-19/0903r1, “Proposed CR for CID 2112, 2633, 2095”, Rui Yang (Interdigital):**

This submission proposes resolution and the spec text for CID 2112, 2633, 2095.

CID 2112:

Q: Maybe we should use the word energy instead of power.

A: In principle I agree, but since what we are interested in is the ratio between ON and OFF, I believe it is fine as it is,

CID 2095: No discussion.

CID 2633: No discussion.

11-19/0903r1, containing 3 CIDs, is ready for motion.

11-19/0749r2, “11ba D2.1 MAC Comment Resolution for Miscellaneous CIDs Part II”, Po-Kai Huang (Intel): This is a continuation of the presentation.

CID 2695: No discussion.

CID 2176: No discussion.

CID 2216: No discussion.

CID 2217: No discussion.

CID 2221: No discussion.

CID 2222: No discussion.

CID 2224: No discussion.

CID 2199: No discussion.

CID 2229: No discussion.

Q: You use the word scan, but the commenter talks about wake-up. I believe these are two different things.

A: I just want to point out that there is no conflict in the document. I can change the wording to make it more clear.

Q: When a STA associates, it does so on a specific channel. It can then do a channel switch. If you say that you can scan on one band and be on another, it means there are two STA instances.

A: The thinking is that if you are in doze state, you are able to go to another band to scan.

Q: There are also architectural issues related to things like that the AP needs to buffer packet and the same AP should send the wake-up packet.

Q: In my opinion, these resolutions do not address my concern.

Q: I am also objecting to the resolution on this CID.

As a result, CID 2229 is removed from the document.

Q: It is unclear to me what WUR mode really implies. Also the triggers to move into doze state and other states are not clear.

Straw Poll: Do you support 2176-2199 in 749r2 (8 CIDs) 2229 is removed.

Y/N/A: 26/4/4

Ready for motion.

**Motions:**

**Motion #2022:**

Move to replace the resolution to CID 2592 with the following:

“Revised. Agree in principle with the commenter. MLME SAPs related to WUR Scanning are added.

TGba editor to incorporate the changes shown in 11-19/650r2 under all headings that include CID 2592.”

replace the resolution to CID 2694 with the following:

“Revised. Agree in principle with the commenter. MLME SAPs related to WUR Scanning are added.

TGba editor to incorporate the changes shown in 11-19/650r2 under all headings that include CID 2694.”

and replace the resolution to CID 2513 with the following:

“Revised. Agree in principle with the commenter. WUR non-AP STA behavior related to receipt of WUR Discovery frame is added.

TGba editor to incorporate the changes shown in 11-19/650r2 under all headings that include CID 2513.”

**Move:** Yunsong Yang

**Second:**Po-Kai Huang

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

**Motion #2023:**

Move to accept the comment resolutions to the following CIDs in the document 11-19/749r2: CID: 2784, 2785, 2055, 2037, 2176, 2216, 2217, 2221, 2222, 2224, 2682, 2695, 2199

**Move:** Po-Kai Huang

**Second:** Yunsong Yang

**Result:** Y/N/A: 21/4/0 (passes)

**Motion #2024:**

Move to accept the comment resolutions to the following CIDs in the document 11-19/903r1:

CID: 2112, 2095, 2633

**Move:** Rui Yang

**Second:** Xiaofei Wang

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

**Recess 12.30pm.**

**Thursday, May 16 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/19/11-19-0617-10-00ba-2019-may-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* Presentations on comment resolutions, **motions on CR**
* **Motion: WG recirculation letter ballot**
* TG timeline discussion
* Goal for July 2019 F2F meeting
* Teleconference call schedule
* Adjourn

**Chair Minyoung Park (Intel) calls the meeting to order at 1:35 pm.** (about30 persons in the room.)

Minyoung reminds about attendance.

Po-Kai informs he has prepared a document containing all CIDs currently not addressed. There are 18 CIDs on this list.

Minyoung presents the agenda and asks if there are any comments or questions. No questions, so the agenda will be used.

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

**Motion #2017:**

Move to accept the comment resolutions to the CIDs in the following documents:

1. 11-19/643r4, lb237-cr-for-miscellaneous-part-1 (Minyoung, Intel)  
   - CIDs: 2010, 2038, 2571, 2113, 2198, 2228, 2264, 2374, 2392, 2511, 2572, 2614, 2615, 2616, 2617, 2644, 2645, 2653, 2778, 2798
2. 11-19/642r2, “CR on 4.9 GHz related comments”, Minyoung Park (Intel)  
   - CIDs: 2006, 2007, 2009, 2012, 2013, 2015, 2023, 2024, 2025, 2026, 2027, 2114, 2717, 2767
3. 11-19/570r2, “crs-for-phy-introduction-D2.0”, Yonggang Fang (ZTE)  
   - CIDs:2621, 2574, 2780, 2590, 2591, 2068, 2495
4. 11-19/398r3, “PHY-CR-for-Clause-31”, Vinod Kristem (Intel)  
   - CIDs: 2063, 2064, 2065, 2066, 2074, 2075, 2085, 2497, 2500, 2669, 2777, 2789, 2790, and 2826
5. 11-19/0649r2, “PHY Comment resolution for Clause 31.2.8”, Vinod Kristem (Intel)  
   - CIDs: 2019, 2069, 2070, 2104, 2618, 2619, 2754, and 2825
6. 11-19/0644r3 “Comment resolutions for miscellaneous comments - part 2”, Minyoung Park (Intel)  
   - CIDs: 2270, 2271, 2272, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2291, 2292, 2293, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2307, 2308, 2309, 2312, 2340, 2343, 2345, 2346, 2353, 2355, 2357, 2363, 2364, 2105, 2366, 2368, 2369, 2395
7. 11-19/0682r1, “PHY Comment resolution for Clause 31.2” Vinod Kristem (Intel)  
   - CIDs: 2020, , 2501, 2630, and 2791

**Move:** Po-Kai Huang

**Second:**Lei Huang

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

**Motion #2018:**

Move to accept the comment resolutions to the CIDs in the following documents:

1. 11-19/590r1, “CR for WUR Duty Cycle Part I” Po-Kai Huang (Intel Corporation)  
   -CIDs: 2045, 2046, 2123, 2356, 2213, 2214, 2263, 2417, 2433, 2434, 2435, 2450, 2470, 2606, 2607, 2608, 2729
2. 11-19/599r2, cr-for-miscellaneous-cids (Po-kai, Intel)  
   - CIDs: 2211, 2262, 2691
3. 11-19/591r3, cr-for-wur-power-management-and-negotiation-part-I (Po-kai, Intel)  
   -CIDs: 2029, 2034, 2036, 2053, 2097, 2130, 2150, 2151, 2152, 2175, 2215, 2218, 2223,, 2225, 2238, 2243, 2396, 2399, 2436, 2437, 2438, 2439, 2505, 2508, 2610, 2657,, 2693,, 2700, 2756, 2775,,, 2799, 2807
4. 11-19/580r4, mac-cr-miscellaneous (Alfred, Qualcomm)  
   -- 2141, 2142, 2181, 2506, 2814, 2101, 2402, 2770, 2338, 2577
5. 11-19/582r2, mac-cr-transmitter-id (Alfred, Qualcomm)  
   - 2043, 2139, 2204, 2207, 2403, 2405, 2429, 2683, 2816, 2817
6. 11-19/583r2, mac-cr-wur-frame-format (Alfred, Qualcomm)  
   - - 2033, 2144, 2145, 2167, 2385, 2386, 2401, 2414, 2509, 2726, 2733, 2734, 2808
7. 11-19/584r2, mac-cr-wur-discovery-frame (Alfred, Qualcomm)  
   - 2128, 2146, 2388, 2510, 2600, 2648, 2810, 2811

**Move: Vinod Kristem**

**Second: Po-Kai Huang**

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

**Motion #2019:**

Move to accept the comment resolutions to the CIDs in the following documents:

1. 11-19/424r2, "Comment Resolutions on BPSK-Mark Comments” Steve Shellhammer (Qualcomm)  
   - CIDs: 2110, 2563, 2652, 2660, 2792
2. 11-19/651r2, "Comment Resolutions on Sync Field Comments” Steve Shellhammer (Qualcomm)  
   - CID: 2776
3. 11-19/738r0, "Comment Resolutions for Off WG Comments” Steve Shellhammer (Qualcomm)  
   - CIDs: 2628, 2629, 2678, 2679
4. 11-19/782r2, Tx LO comment (Richard van Nee, Qualcomm)  
   - CID: 2111
5. 11-19/786r1, CR for Tx mask for WUR-Sync and WUR-Data (Minyoung Park, Intel)  
   - CID: 2062
6. 11-19/711r1, CR for misc. part 3 (Minyoung Park, Intel)  
   - CIDs: 2008, 2028, 2058, 2083, 2131, 2133, 2241, 2265, 2266, 2310, 2477, 2536, 2613, 2654
7. 11-19/645r2, CR for HDR LDR (Minyoung Park, Intel)  
   - CIDs: 2059, 2071, 2072, 2476, 2442, 2527, 2303, 2304, 2305, 2306, 2348, 2349, 2358, 2360, 2361, 2362

**Move: Steve Shellhammer**

**Second: Eunsung Park**

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

**Motion #2020:**

Move to accept the comment resolutions in the following documents:

1. 11-19/576r3, "LB237 CR WUR FDMA” Yongho Seok (MediaTek)   
   - CIDs:2702, 2705, 2440, 2703, 2704, 2757, 2706, 2449, 2519, 2634, 2804, 2451, 2050, 2472, 2049, 2051, 2048, 2659, 2159, 2290, 2294, 2302
2. 11-19/744r1, "MAC CR on Channel Access” Ming Gan (Huawei)  
   - CIDs: 2039 2040 2135 2147 2149 2200 2232 2267 2428 2684 2739 2788
3. 11-19/741r4, "CR on Capabilities element” Suhwook Kim (LGE)  
   - CIDs: 2115, 2138, 2157, 2165, 2259, 2443, 2444, 2507, 2596, 2658, 2718, 2719, 2720, 2721, 2787, 2800
4. 11-19/742r2, “CR on Power Management” Suhwook Kim (LGE)  
   - CIDs; 2022, 2052, 2121, 2122, 2219, 2220, 2260, 2426, 2453, 2609, 2680, 2731, 2732, 2745, 2768, 2769, 2773, 2774, 2802, 2803, 2805
5. 11-19/0729r4, CRs for clause 30.9.2 and 30.9.3 Protected WUR frames - Part2, Rojan Chitrakar (Panasonic)  
   - CIDs: 2314, 2315, 2316, 2319, 2320, 2323, 2324, 2325, 2326, 2327, 2559, 2582, 2583, 2587, 2588, 2589
6. 11-19/789r0, CR for CID 2347 and 2699, Xiaofei Wang (InterDigital)  
   - CIDs: 2347, 2699
7. 11-19/790r0, CR for Misc MAC CIDs, Xiaofei Wang (InterDigital)  
   - CIDs: 2313, 2342, 2352, 2359 and 2351

**Move: Suhwook Kim**

**Second: Vinod Kristem**

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

**Motion #2021:**

Move to accept the comment resolutions to the CIDs in the following documents:

1) 11-19/482r4,  WUR Short Wake-up frame, Menzo Wentink (Qualcomm)

- CIDs: 2416, 2462, 2367

2) 11-19/761r2, Resolutions to CIDs related to Protected WUR frames, Yunsong Yang (Huawei)

- CIDs: 2318, 2333, 2334, 2335, 2336, 2337, 2341, 2350, 2418, 2419, 2421, 2522, 2555, 2576, 2578, 2579, 2823, 2824

3) 11-19/399r4, comment resolution for subclause 9-10-3-2, Kaiying Lu (Self)

- CIDs: 2127, 2168, 2169, 2182, 2387, 2389, 2390, 2391, 2427, 2460, 2461, 2520, 2521, 2597, 2598, 2681, 2162, 2685

4) 11-19/834r2, comment resolution for subclause 9-10-3-4, Kaiying Lu (Self)

- CIDs: 2384, 2601, 2649, 2735, 2736, 2812, 2813

5) 11-19/802r2, CR for 30.3, Woojin Ahn, (WILUS)

- CIDs: 2041, 2042, 2170, 2171, 2201, 2393, 2400, 2463, 2512, 2570, 2687, 2688, 2690, 2740, 2781, 2782, 2815

6) 11-19/803r1, CR for 30.4.4, Woojin Ahn, (WILUS)

- CIDs: 2164, 2206, 2430, 2524, 2526

7) 11-19/581r3, mac-cr-identifiers-of-wur-frames, Alfred Asterjadhi (Qualcomm)

- CIDs: 2154, 2156, 2202, 2203, 2406, 2464, 2525, 2741

8) 11-19/585r1, mac-cr-protected-wur-frames-part1, Alfred Asterjadhi (Qualcomm)  
 CIDs: 2057, 2067, 2118, 2420, 2518, 2557, 2560, 2580, 2581, 2820, 2821, 2822, 2329, 2331, 2339, 2321, 2322, 2328

**Move: Alfred Asterjadhi**

**Second: Po-Kai Huang**

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

**Motion #2025:**

Move to accept the comment resolutions to the following CIDs in the following documents:

* 11-19/861r2: CIDs 2108, 2274, 2275, 2489, and 2631
* 11-19/687r2: CIDs 2482, 2483, 2484, 2485, 2486, 2487, 2089, 2090, 2091, 2092, 2093, 2094, 2623, 2624, 2625, 2626, 2627, 2277, and 2278.
* 11-19/710r4: CIDs: 2662, 2475, 2661, 2273, 2276, 2311, 2076, 2077, 2078, 2079, 2620, and 2692

**Move: Vinod Kristem**

**Second: Po-Kai Huang**

**Result:** Y/N/A: 17/3/2.

**Presentations:**

**11-19/0820r0, “Spec Text for CR for CID 2354, 2698 and 2753”, Xiaofei Wang (Interdigital)**

This submission proposes resolutions for the following CIDs: 2354, 2698 and 2753. The baseline for this comment resolution document is 802.11ba Draft 2.0.

The presentation is made to get some feedback from the group.

Q: The membership of a group is dynamic, so this means that if a device is leaving things need to be updated?

Q: I also have this concern, I believe it comes with a lot of overhead?

Q: I wonder what kind of gain you expect from this? I guess it also depends on how different delays the different STAs have.

A: I can try to generate some numbers with respect to this.

**Straw Poll:** Do you support the solutions to the comments?

Y/N/A: 4/4/11

**11-19/0755r5, “TGba D2.1 Comment Resolutions for CIDs 2424 and 2491”, Eunsung Park (LGE):** This submission proposes resolutions for comments of TGba D2.1 with the following CIDs: 2424, 2491

CID 2424: No discussion.  
CID 2491: No discussion.

Ready for motion.

**Motion #2026:**

Move to accept the comment resolutions to the following CIDs in the following documents: 11-19/755r5: CIDs 2424, 2491

**Move: Eunsung Park**

**Second: Vinod Kristem**

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

**11-19/0794r1, “Comment Resolutions for FDMA Transmit Spectrum Mask”, Rui Cao (Marvell). Presented by Minyoung Park:** This submission proposes resolutions for comments received on WUR Transmit Spectrum Mask for FDMA PPDU. The following is the list of CIDs:

2016

CID 2016: No discussion.

Ready for motion.

**Motion #2027:**

Move to accept the comment resolutions to the following CIDs in the following documents:

11-19/794r1: CIDs 2016

**Move: Vinod Kristem**

**Second: Po-Kai Huang**

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

**11-19/0443r3, “11ba MAC Comment Resolution on WUR Wake-up frame”, Jeongki Kim (LGE):** This submission proposes resolution for the CID 2162. Presented in last meeting, but run out of time.

CID 2162:

Q: Is it mandatory for the STA to react on it? I can’t clearly see how a non-AP reacts as I can’t see any normative behavior.

Q: I believe this may be security issues related to this. I believe more work is needed to ensure this.

**Straw Poll:** Do you support the resolution?

**Y/N/A: 4/2/14**

**11-19/0932r1, “CR on remaining CIDs”, Po-Kai Huang (Intel):** In order to address all comments, Po-Kai has collected the 16 CIDs that have not been addressed elsewhere. All are rejected, and large majority of the comments are rejected based on being invalid comments.

CID 2056: Rejected

CID 2109: Rejected The comment is withdrawn

CID 2132: Rejected

CID 2140: Rejected

CID 2162: Rejected

CID 2229: Rejected

CID 2317: Rejected

CID 2330: Rejected

CID 2332: Rejected

CID 2344: Rejected

CID 2354: Rejected

CID 2365: Rejected

CID 2698: Rejected

CID 2753: Rejected

CID 2779: Rejected

CID 2809: Rejected

**Motion #2028:**

Move to accept the comment resolutions to the following CIDs in the following document:

11-19/932r1: CIDs: 2056, 2109, 2132, 2140, 2162, 2229, 2317, 2330, 2332, 2344, 2354, 2365, 2698, 2753, 2779, 2809

**Move: Po-Kai Huang**

**Second: Rojan Chitrakar**

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

**Motion – WG Recirculation Ballot**

* Having approved comment resolutions for all of the comments received from LB 237 on P802.11ba D2.0
* Instruct the editor to prepare P802.11ba D3.0 incorporating these resolutions and,
* Approve a 15 day Working Group Recirculation Ballot asking the question “Should P802.11ba D3.0 be forwarded to Sponsor Ballot?”

**Move: Peter Loc**

**Second: Po-Kai Huang**

**Result: Y/N/A: 22/0/3, motion passes**

**TGba Timeline discussion:**

The TGba timeline is left unchanged and is shown below.

* **2017**
  + **January**: TGba formation meeting
* **2018**
  + **January**: TGba Draft 0.1
  + **September**: TGba Draft 1.0
  + **November**: Comment resolution on TGba Draft1.0
* **2019:**
  + **January**: TGba Draft 2.0
  + **March**: Comment resolution on D2.0
  + **May**: TGba Draft 3.0 – WG Recirculation LB
  + **July**: Comment resolution on D3.0, MDR/MEC done
  + **September**: TGba Draft 4.0, Formation of sponsor ballot pool
  + **November**: TGba Draft 5.0, Sponsor ballot
* **2020:**
  + **September**: RevCom

**Goals for July 2019:**

* Comment assignment
* Comment resolution on D3.0
* Review timeline

**Teleconference Call Schedule:**

Proposed schedule (Monday, 1.5 hour):

* June 17, 10:00 ET

**The meeting is adjourned without objection at 3.19 pm.**