IEEE P802.11  
Wireless LANs

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| IEEE 802.11ba Task Group Meeting Minutes for November 2018 Meeting, Bangkok, Thailand | | | | |
| Date: 2018-09-14 | | | | |
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Abstract

Rev 0: Meeting Minutes for the IEEE 802.11ba TG sessions held in Bangkok, Thailand, November 11-16, 2018.

Rev 1: Meeting Minutes updated with respect to 11-18/1976r0.

**Monday, November 12 2018, 8:00-10:00 am**

**Ad-hoc Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/18/11-18-1717-02-00ba-november-2018-tgba-agenda.pptx>

* Call meeting to order, TGba introduction
* Call for submissions
* Review agenda and approval
* IEEE 802 and 802.11 IPR Policy and procedure
* Participation in IEEE 802 Meetings
* Summary from September 2018 meeting
* Comment assignments (if any)
* Presentations – comment resolutions
* Adjourn

**Chair Minyoung Park (Intel) calls the meeting to order at 8.00 am.** (about20 persons in the room.)

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

Minyoung presents the schedule for the week (slide 7) and the logistics of the ad-hoc meetings (slide 8).

Minyoung presents the slide “Main agenda items for the week”, which is shown below.

* Comment resolution of TGba D1.0 letter ballot
* Review TG timeline

Minyoung goes through the list of submissions. As of this date 9 PHY submissions and 26 MAC submissions have been received.

Minyoung asks if there is any submission is missing. No comment.

Since there are more MAC contributions, it is decided that MAC will also be covered in the joint sessions.

Minyoung goes through the agenda (slide 14) and asks if there are any questions or comments. No questions or comments from the group and the agenda is approved.

Minyoung goes through the slides “Participants have a duty to inform the IEEE” (slide 17) and “Ways to inform IEEE” (slide 18).

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 19) and “Patent-related information” (slide 20).

Minyoung reads through “Participation in IEEE 802 Meetings” (slide 21), and encourages people to read through the references on slides 22-24.

Minyoung goes through the Summary from September 2018 Meeting and Teleconference Calls, shown below.

* Approved TGba D0.4
* Resolved remaining TBDs in D0.4 to produce D1.0
* The TG passed a motion to enable the TG Editor to prepare draft D1.0 and start a 30-day WG letter Ballot
* The TG approved TGba Coexistence Assurance document (11-18/1069r0)
* TGba power management presented to ARC
* Reviewed TG timeline
* Agenda: doc:11-18/1381

**Presentations:**

**11-18/1864r0 “11ba D1.0 MAC Comment Resolution for WUR Power Management Part I”, Po-Kai Huang (Intel):** Po-Kai goes through comments and the corresponding resolutions related to WUR power management.The document is modified during the presentation and will be uploaded as 1864r1.

During the discussion, CID 123 waschanged from rejected to revised. CIDs 125 and 1071 were found to need more discussion. The document 11-18/1864r1, containing the CIDs below, is ready for motion.

93, 494, 983, 50, 117, 123, 124, ~~125~~, 126, 127, 128, 129, 238, 325, 414, 416, 431, 432, 536, 539, 632, 729, 730, 865, 889, 948, 978, 979, 980, 1070, ~~1071~~, 1133, 1134, 1145, 1157, 1158, 1242, 430

**11-18/1847r0 “11ba D1.0 MAC Comment Resolution for Wake-up Operation Part I” Po-Kai Huang (Intel):** Po-Kai starts to go through comments and the corresponding resolutions related to Wake-up operation.

CID 417 was the last one discussed before the ad-hoc meeting was adjourned.

**Ad-hoc meeting adjourned at 10.00 am.**

**Monday, November 12 2018, 4:00-6:00 pm**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/18/11-18-1717-02-00ba-november-2018-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**: September 2018 meeting (doc: IEEE 802.11-18/1674r0) and teleconference minutes (doc: IEEE 802.11-18/1840r2) approval
* Presentations on comment resolution
* Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 4.00 pm.** (about35 persons in the room.)

Minyoung reminds about recording attendance.

Minyoung goes through the agenda for the week and asks if there are any questions on the agenda or if there is any objection to approve the agenda. No questions asked and the agenda is approved.

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

**Motion:** Approve TGba minutes of September 2018 meeting [doc: IEEE 802.11-18/1674r0] and teleconference calls [doc: IEEE 802.11-18/1840r2]

**Move:** Xiaofei Wang

**Second:** Yunsong Yang

Motion passed by unanimous consent.

**Presentations:**

**11-18/1847r0 “11ba D1.0 MAC Comment Resolution for Wake-up Operation Part I” Po-Kai Huang (Intel):** Po-Kai continues to go through comments and the corresponding resolutions related to Wake-up operation.

CID 811 changed from accept to reject. Reason: The term intend is used frequently in the baseline spec.

CID 1135 changed from Accepted to Revised. 1076 deferred. The document 11-18/1847r1, containing the CIDs below, is ready for motion.

CIDs: 731, 462, 37, 130, 132, 310, 417, 732, 733, 734, 800, 811, 866, 890, 1073, 1080, 1135, 1146, 1185, 1186, 1246, 133, 134, 135, 136, 137, 138, 600, 139, 170, 311, 327, 328, 332, 334, 335, 433, 450, 463, 464, 735, 736, 737, 801, 802, 829, 891, 986, 1079, 1136, 140, 141, 142, 419, 451, 452, 465, 738, 739, 740, 803, 804, ~~1076~~, 1077, 1138, 1139, 1140, 1147

**11-18/1826r1 “11ba D1.0 Comment Resolution for Group ID: Part II”, Lei Huang (Panasonic):** Lei goes through the comments and the proposed comment resolutions related to Group ID: Part II.

The document 11-18/1826r2, containing the CIDs below, will be ready for motion

CIDs: 101, 568, 1067, 1172, 1173, 622, 1174, 853, 1175, 1125, 619, 791, 1069

**11-18/1823r2 “11ba D1.0 Comment Resolution for Group ID: Part I” Lei Huang (Panasonic):** Lei starts togo through the comments and the proposed comment resolutions Group ID: Part I

**Adjourn at 6.00 pm.**

**Tuesday, November 13 2018, 8:00-10:00 am**

**TGba PHY ad-hoc Meeting**

Ad-hoc Group Chair: Steve Shellhammer (Qualcomm)

Ad-hoc Secretary: Leif Wilhelmsson (Ericsson)

**The ad-hoc Chair Steve Shellhammer (Qualcomm) calls the meeting to order at 8.04 am. (12 persons in the room)**

**Steve reminds about taking attendance.**

**11-18/1861r0 “TGba D1.0 Comment Resolutions for 32.2.5 WUR Data Rates”, Eunsung Park (LGE)**

Some comments that have been accepted have been denoted revised. This was changed. The document 11-18/1861r1, containing the CIDs below, will be ready for motion:

CIDs: 190, 563, 564, 565, 749, 923, 962

**11-18/1862r0 “TGba D1.0 Comment Resolutions for 32.2.9 WUR-Data Field” Eunsung Park (LGE)**

CID 265 is changed from revised to reject.

CID 199 The original amended resolution is further amended adding a reference to 32.2.7 (Mathematical description of signals).

CID 676 was not agreed and will not be motioned

The document 11-18/1862r1, containing the CIDs below, will be ready for motion

165, 196, 199, 213, 265, 266, 267, ~~676~~, 677, 751

**11-18/1880r0 “Comment resolution on spectral flatness” Steve Shellhammer (Qualcomm):** Steve suggests an addition to the spectral flatness requirement text which ensures that the signal has a minimum power in all 1 MHz segments of the transmitted signal.

People agrees with the idea in general and it was agreed that those interested in the subject work off-line before the next session to try to agree on a text proposal.

**The ad-hoc meeting is recessed at 10.00 am.**

**Tuesday, November 13 2018, 8:00-10:00 am**

**TGba MAC ad-hoc Meeting**

Ad-hoc Group Chair: Minyoung PARK (Samsung)

Ad-hoc Secretary: Yunsong YANG (Huawei)

1. Called to order at 8:04 local time by Minyoung Park.
2. Attendance: 13.
3. Approval of agenda (11-18-1717r3 is shown on the screen)

* No changes, comments or questions.
* Agenda (r3) is approved.

1. Review patent policy and guidelines
   * No items identified.
2. Presentation
   * 11-18-1826-02-00ba-comment-resolution-on-group-id-part-ii (Lei Huang, Panasonic)
     + Lei went over the changes made since previous presentation in the TGba session.
     + Regarding CID 791, need to be consistent with Alfred’s comment resolution in the same area.
     + Will talk offline and come back with update in r3.
   * 11-18-1881-01-00ba-crs-for-wur-discovery-element (Rojan Chitrakar, Panasonic)
     + CID 17: reviewed. No change to the proposed resolution.
     + CID 27: reviewed. No change to the proposed resolution.
     + CID 28: reviewed. No change to the proposed resolution.
     + CID 61: changed “TGax editor” to “TGba editor” globally.
     + CID 78: reviewed. No change to the proposed resolution.
     + CID 80: changed the resolution to Rejected. Co-located AP is not the right term here. Un-do the related text changes.
     + CID 286: reviewed. No change to the proposed resolution.
     + CID 287: added more explanation of the reason for rejection.
     + CID 357: reviewed. No change to the proposed resolution.
     + CID 372: reviewed. No change to the proposed resolution.
     + CID 844: reviewed. No change to the proposed resolution.
     + CID 1233: reviewed. No change to the proposed resolution.
     + Document will be updated to r2. Update all reference to r2.
     + Ready for motion.
   * 11-18-1882-00-00ba-crs-for-wur-discovery (Rojan Chitrakar, Panasonic)
     + CID 38: reviewed. No change to the proposed resolution.
     + CID 39: reviewed. No change to the proposed resolution.
     + CID 151: changed the wording in the proposition.
     + CID 339: reviewed. No change to the proposed resolution.
     + CID 607: Discussed the use of the information in WUR AP field for WUR discovery. The group can’t reach consensus on a resolution. Removed CID 607 from the document (resolution deferred). Un-do all text changes related to CID 607.
     + CID 608: reviewed. No change to the proposed resolution.
     + CID 611: reviewed. No change to the proposed resolution.
     + CID 612: reviewed. No change to the proposed resolution.
     + CID 783: changed the last sentence in the text changes related to CID 783 (deleted “only”).
     + CID 794: changed the resolution to Revised. Removed “for faster WUR AP Discovery” from the text.
     + CID 795: changed the resolution to Accepted.
       - Will revise the resolution to CID 151 to be consistent with CID 795.
     + Out of time. Will continue in PM1.
3. Recessed at 10:00 local time.

**Tuesday, November 13 2018, 1:30-3:30 am**

**TGba PHY ad-hoc Meeting**

Ad-hoc Group Chair: Steve Shellhammer (Qualcomm)

Ad-hoc Secretary: Leif Wilhelmsson (Ericsson)

**Ad-hoc Chair Steve Shellhammer calls the meeting to order at 1.30 pm. (16 persons in the room)**

**Presentations:**

**11-18/1913r1 “CR for TX/RX Specification” Leif Wilhelmsson (Ericsson)**

Based on off-line discussion, three of the CIDs will instead be addressed in 11-18/2012r1.

11-18/1913r3, containing the CIDs below, is ready for motion.

CIDs 24, 154, 201, ~~202, 203~~, 204, 205, 471, 839, and ~~968~~.

**11-18/2012r0 “Comment Resolutions Text on Spectral Flatness”, Steve Shellhammer (Qualcomm):** This is a continuation of the presentation from the morning. Based on the off-line discussions the proposed text for the comment resolution has been updated. Since the proposed text effectively also address CID 202 and 203, these CIDs are moved from 11-18/1913 to 11-18/2012.

11-18/2012r1, containing the CIDs below, is ready for motion.

CIDs: 202,203,968

**11-18/1898r1 “Comment Resolutions on the Sync Field”, Steve Shellhammer (Qualcomm)**

The proposed resolution to CID 188 is updated based on the discussion with the group.

11-18/1898r2, containing the CIDs below, is ready for motion.

CIDs: 164, 188, 197, 198, 302, 670, 671, 672, 673, 674, 675, 926, 927, 928, 929, 1023, 1054, 1214, 1215.

**11-18/1914r1 “CR for Mathematical description of signals Part 1”, Miguel Lopez (Ericsson)**

11-18/1914r2, containing the CIDs below, is ready for motion.

CIDs: 163, 227, 261, 317, 666, 1059, 191, 228, 262, 667,1060, 192, 663, 664, 217, 162, 1057, 1058, 1210, 1211, 193, ~~158, 263, 1061~~, 1208, 161, ~~194~~, 159, 964, ~~977, 665, 212~~

**Recess at 3.30pm.**

**Tuesday, November 13 2018, 1:30-3:30 pm**

**TGba MAC ad-hoc Meeting**

Ad-hoc Group Chair: Minyoung PARK (Samsung)

Ad-hoc Secretary: Yunsong YANG (Huawei)

1. Called to order at 13:30 local time by Minyoung Park.
2. Attendance: 38.
3. Approval of agenda (11-18-1717r4 is shown on the screen)

* No comments or questions.
* Agenda (r4) is approved unanimously.

1. Comment Resolution
   * 11-18-1882-00-00ba-crs-for-wur-discovery (Rojan Chitrakar, Panasonic)
     + CID 860: reviewed. No change to the proposed resolution.
     + Revisit of CID 38: keep the resolution as Rejected. But change the first sentence in the proposition to “No detailed changed has been proposed.”
     + CID 861: reviewed. No change to the proposed resolution.
     + CID 939: reviewed. No change to the proposed resolution.
     + CID 1188: reviewed. No change to the proposed resolution.
     + Will update the document to r2 and change all references to r2)
     + Ready for motion.
   * 11-18-1875-00-00ba-cr-for-wur-beacon-and-synchronization (Po-Kai Huang, Intel)
     + CID 104: reviewed. No change to the proposed resolution.
     + CID 333: reviewed. No change to the proposed resolution.
     + CID 497: reviewed. No change to the proposed resolution.
     + CID 624: reviewed. No change to the proposed resolution.
     + CID 404: reviewed. No change to the proposed resolution.
     + CID 625: reviewed. No change to the proposed resolution.
     + CID 626: reviewed. No change to the proposed resolution.
     + CID 1180: reviewed. No change to the proposed resolution.
     + CID 1181: reviewed. No change to the proposed resolution.
     + CID 105: reviewed. No change to the proposed resolution.
     + CID 403: changed the resolution from “Accepted” to “Revised”, because the resolution is one of the two alternatives offered by the commenter.
     + CID 106: reviewed. No change to the proposed resolution.
     + CID 107: reviewed. No change to the proposed resolution.
     + CID 360: reviewed. No change to the proposed resolution.
     + CID 421: reviewed. No change to the proposed resolution.
     + CID 423: reviewed. Since the commenter suggests that he will provide submission, the chair recommend to check with the commenter first.
       - Removed CID 423 from the document (resolution deferred).
     + CID 498: reviewed. No change to the proposed resolution.
     + CID 528: reviewed. No change to the proposed resolution.
     + CID 569: reviewed. No change to the proposed resolution.
     + CID 593: reviewed. No change to the proposed resolution.
     + CID 594: reviewed. No change to the proposed resolution.
     + CID 595: changed the resolution to Revised.
     + CID 596: reviewed. No change to the proposed resolution.
     + CID 596: reviewed. No change to the proposed resolution.
     + CID 627: reviewed. No change to the proposed resolution.
     + CID 805: reviewed. No change to the proposed resolution.
     + CID 830: reviewed. No change to the proposed resolution.
     + CID 864: reviewed. No change to the proposed resolution.
     + CID 886: reviewed. No change to the proposed resolution.
     + CID 1127: reviewed. No change to the proposed resolution.
     + CID 1128: reviewed. No change to the proposed resolution.
     + CID 1129: reviewed. No change to the proposed resolution.
     + CID 45: reviewed. No change to the proposed resolution.
     + CID 46: reviewed. No change to the proposed resolution.
     + CID 47: reviewed. No change to the proposed resolution.
     + CID 48 reviewed. No change to the proposed resolution.
     + CID 49: reviewed. No change to the proposed resolution.
     + CID 108: keep the resolution as Revised and changed the proposition. Changed the title of clause 31.4.3 in the text.
     + CID 109: reviewed. No change to the proposed resolution.
     + CID 460: reviewed. No change to the proposed resolution.
     + CID 589: keep the resolution as Rejected but removed the second paragraph in the proposition.
     + CID 167: reviewed. No change to the proposed resolution.
     + CID 168: reviewed. No change to the proposed resolution.
     + The document will be updated to r1. And change all references to r1.
     + Ready for motion.
   * 11-18-1869-00-00ba-mac-cr-on-wur-id (Jeongki Kim, LGE)
     + CIDs 435, 436, and 799: keep the resolution as Revised. Consolidate the text changes for all 3 CIDs into one added sentence, which reads “The AP shall ensure that the selected or calculated WUR ID is not any of 0, any *Group ID,* or the *transmit ID* of the AP.”
     + The document will be updated to r1. And change all references to r1.
     + Ready for motion.
   * 11-18-1872-00-00ba-mac-cr-on-wur-sta-operation (Jeongki Kim, LGE)
     + CID 437: keep the resolution as is. Fixed the issue in the text change.
     + CID 438: keep the resolution as is. Fixed the issue in the text change (similar to CID 437).
     + The document will be updated to r1. And change all references to r1.
     + Ready for motion.
2. Recessed at 15:30 local time.

**Wednesday, November 14 2018, 4:00-6:00 pm**

**TGba PHY ad-hoc Meeting**

Ad-hoc Group Chair: Eunsung Park (LGE)

Ad-hoc Secretary: Leif Wilhelmsson (Ericsson)

**Ad-hoc Chair Eunsung Park calls the meeting to order at 4.00 pm. (13 persons in the room)**

**Presentations:**

**11-18/1966r2 “Comment resolution on WUR transmit procedure (32.2.13)”, Vinod Kristem (Intel)**

970 is change from reject to revise

11-18/1966r3, containing the CIDs below, will be ready for motion.

CIDs: 206, 229, 230, ~~269, 270~~, ~~271~~, 501, 752, 969, 970, 971, ~~972, 973~~, 1216, 1217, 1218, 1219

**11-18/1965r3 “Comment resolution on WUR receive procedure (32.2.14)”, Vinod Kristem (Intel)**

11-18/1965r4, containing the CIDs below, will be ready for motion.

CIDs: 22, 25, 40, 41, 42, 43, 208, 231, ~~272~~, 502, 1221, 1253

**11-18/1976r0 “Comment resolution on BPSK-Mark (32.2.4.5)”, Vinod Kristem (Intel):**

Based on discussions in the PHY group, it was decided that more work was needed and the originally proposed comment resolution for CIDs 256 and 920 was for this reason deferred.

**11-18/2000r0 “CR for Examples of WUR MC-OOK Symbol Design and CSD Design in Annex AB”, Dennis Sundman (Ericsson)**

11-18/2000r1, containing the CIDs below, will be ready for motion.

CIDs: 160, 215, 278, 1062, 1063, 1064, 1155

**Adjourn at 5.25 pm.**

**Wednesday, November 13 2018, 4:00-6:00 pm**

**TGba MAC ad-hoc Meeting**

Ad-hoc Group Chair: Minyoung PARK (Samsung)

Ad-hoc Secretary: Yunsong YANG (Huawei)

1. Called to order at 16:00 local time by Minyoung Park.
2. Attendance: 37.
3. Approval of agenda (11-18-1717r5 is on the server and shown on the screen)

* No comments or questions.
* Agenda (r5) is approved unanimously.

1. Review patent policy and guidelines
   * No items identified.
2. Comment resolution
   * 11-18-1865-01-00ba-comment-resolutions-on-wur-mode-element-part-1 (Jeongki Kim, LGE)
     + CID 359: keep the resolution but removed the last sentence in the proposition.
     + CIDs 567 and 449: reviewed. But the MAC group cannot reach consensus on a resolution. Both CIDs are removed from the document (resolution deferred).
     + CID 982: many members support to reject the comment. The assignee would like time t consider it. CID 982 is removed from the document (resolution deferred).
     + CID 1027: also removed from the document (resolution deferred).
     + The text changed related to these deferred CIDs are deleted from the document. So, there will be no text changes from this document
     + The document will be updated to r2. (CID 359 remains in the document).
     + Ready for motion.
   * 11-18-1826-03-00ba-comment-resolution-on-group-id-part-ii (Lei Huang, Panasonic)
     + Reviewed the changes on “randomly select” related to CID 791.
     + No question or objection to the change.
     + Ready for motion.
   * 11-18-1883-01-00ba-comment-resolutions-on-wur-mode-element-part-2 (Jeongki Kim, LGE)
     + CID 64: reviewed. No changes to the proposed resolution.
     + CID 66: removed from the document. And delete the new figure related to CID 66. Removed the reference to CID 66 from all related CIDs.
     + CID 633: removed from this document, as it belongs to another document.
     + CIDs 634, 635, 1089, 1090, and 1091: keep all resolutions as Revised. In the text, in the new Table 31-1xx
       - Removed “exchange” from table title.
       - Changed “tear down WUR mode or WUR Mode suspend” to “tear down WUR power management service”
       - Replace “WUR service” with “WUR power management service” in the previous table as well, to be consistent.
     + The document will be updated to r2. And change all references to r2.
     + Ready for motion.
   * 11-18-1874-00-00ba-comment-resolutions-on-wur-capability-element (Jeongki Kim, LGE)
     + CID 13: reviewed. No changes to the proposed resolution.
     + CIDs 14, 366, 367, 516, 981, and 1017: discussed whether 6 GHz is ready. The group felt that 6 GHz spec is not ready. Change the resolution to Rejected.
     + CID 15: changed the resolution to Revised. Change the \* to X.
     + CID 166: Argument for rejecting this comment is that Band ID field in 9.4.1.45 in REVmd D1.6 uses 1 bits for both 4.9 and 5 GHz. However, there is question of whether setting this bit to 1 will request a STA to support 4.9 GHz (this band is licensed band in Japan). The group cannot reach consensus on a resolution. CID 166 is removed from the document (resolution deferred).
     + CID 407: reviewed. No changes to the proposed resolution.
     + CID 780: keep the resolution as Rejected. Add, in the proposition, “the field is already in the WUR Capability Information field”.
     + The document will be updated to r1.
     + Ready for motion.
3. Adjourned at 17:55 local time.

**Thursday, November 15 2018, 10:30-12:30 am**

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/18/11-18-1717-08-00ba-november-2018-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* **Motions**
* Presentations
* Recess

**Chair Minyoung Park (Intel) calls the meeting to order at 10.30 am.** (about35 persons in the room.)

Minyoung reminds about recording attendance.

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

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

**Motions:**

**Motion #2:** Move to accept the comment resolution in [doc.:11-18/1861r1] for CIDs listed below:

* + CIDs: 190, 563, 564, 565, 749, 923, 962

**Move:** Eunsung Park

**Second:** Jeongki Kim

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

**Motion #3:** Move to accept the comment resolution in [doc.:11-18/1862r1] for CIDs listed below:

* + CIDs: 165, 196, 199, 213, 265, 266, 267, 677, 751

**Move:** Eunsung Park

**Second:** Jeongki Kim

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

**Motion #4:** Move to accept the comment resolution in [doc.:11-11-18/1881r2] for CIDs listed below:

* + CIDs:17, 27, 28, 61, 78, 80, 286, 287, 357, 372, 844, 1233

**Move:** Lei Huang

**Second:** Rojan Chitrakar

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

**Motion #5:** Move to accept the comment resolution in [doc.:11-18/1882r2] for CIDs listed below:

* + CIDs: 38, 39, 151, 339, 608, 611, 612, 783, 793, 794, 795, 860, 861, 939, 1188

**Move:** Lei Huang

**Second:** Rojan Chitrakar

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

**Motion #6 (Editorial comments):** Move to accept the comment resolution in [doc.:11-18/1804r2] for CIDs listed below:

* + CIDs: 4, 5, 6, 7, 8, 9, 10, 12, 16, 33, 34, 35, 71, 77, 85, 211, 214, 216, 219, 233, 234, 235, 236, 240, 280, 281, 282, 284, 313, 314, 315, 326, 329, 330, 331, 336, 341, 347, 348, 350, 351, 352, 355, 356, 358, 363, 369, 371, 374, 393, 413, 415, 453, 456, 492, 500, 510, 511, 512, 513, 518, 519, 520, 540, 542, 543, 544, 545, 546, 547, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 582, 588, 614, 615, 630, 638, 647, 648, 649, 651, 652, 654, 655, 668, 669, 685, 686, 687, 688, 690, 691, 692, 693, 694, 695, 698, 704, 705, 712, 713, 715, 723, 756, 757, 773, 774, 779, 810, 816, 817, 835, 836, 837, 840, 846, 873, 874, 932, 942, 943, 944, 959, 965, 967, 974, 988, 989, 990, 991, 992, 997, 998, 999, 1007, 1008, 1011, 1012, 1020, 1021, 1022, 1035, 1072, 1082, 1083, 1085, 1098, 1108, 1119, 1121, 1123, 1124, 1148, 1159, 1162, 1164, 1207, 1209, 1222, 1223

**Move:** Po-Kai Huang

**Second:** Lei Huang

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

**Motion #7:** Move to accept the comment resolution in [doc.:11-18/1847r1] for CIDs listed below:

* + CIDs: 731, 462, 37, 130, 132, 310, 417, 732, 733, 734, 800, 811, 866, 890, 1073, 1080, 1135, 1146, 1185, 1186, 1246, 133, 134, 135, 136, 137, 138, 600, 139, 170, 311, 327, 328, 332, 334, 335, 433, 450, 463, 464, 735, 736, 737, 801, 802, 829, 891, 986, 1079, 1136, 140, 141, 142, 419, 451, 452, 465, 738, 739, 740, 803, 804, 1077, 1138, 1139, 1140, 1147

**Move:** Po-Kai Huang

**Second:** Lei Huang

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

**Motion #8:** Move to accept the comment resolution in [doc.:11-18/1864r1] for CIDs listed below:

* + CIDs: 93, 494, 983, 50, 117, 123, 124, 126, 127, 128, 129, 238, 325, 414, 416, 431, 432, 536, 539, 632, 729, 730, 865, 889, 948, 978, 979, 980, 1070, 1133, 1134, 1145, 1157, 1158, 1242, 430

**Move:** Po-Kai Huang

**Second:** Lei Huang

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

**Motion #9:** Move to accept the comment resolution in [doc.:11-18/1875r1] for CIDs listed below:

* + CIDs: 104, 333, 497, 624, 404, 625, 626, 1180, 1181, 105, 403, 106, 107, 360, 421, 498, 528, 569, 593, 594, 595, 596, 627, 805, 830, 864, 886, 1127, 1128, 1129, 45, 46, 47, 48, 49, 108, 109, 460, 589, 167, 168

**Move:** Po-Kai Huang

**Second:** Vinod Kristem

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

**Motion #10:** Move to accept the comment resolution in [doc.:11-18/1914r2] for CIDs listed below:

* + CIDs: 163, 227, 261, 317, 666, 1059, 191, 228, 262, 667,1060, 192, 663, 664, 217, 162, 1057, 1058, 1210, 1211, 193, 1208, 161, 159, 964

**Move:** Miguel Lopez

**Second:** Dennis Sundman

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

**Motion #11:** Move to accept the comment resolution in [doc.:11-18/2012r1] for CIDs listed below:

* + CIDs: 202, 203 and 968

**Move:** Steve Shellhammer

**Second:** Leif Wilhelmsson

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

**Motion #12:** Move to accept the comment resolution in [doc.:11-18/1898r2] for CIDs listed below:

* + CIDs: 164, 188, 197, 198, 302, 670, 671, 672, 673, 674, 675, 926, 927, 928, 929, 1023, 1054, 1214, 1215
  + **Move:** Steve Shellhammer
  + **Second:** Leif Wilhelmsson

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

**Motion #13:** Move to accept the comment resolution in [doc.:11-18/1823r2] for CIDs listed below:

* + CIDs: 67, 439, 454, 700, 701, 706, 778, 841, 842, 1013, 1015, 1093, 1094, 1095, 1096, 1228

**Move:** Lei Huang

**Second:** Rojan Chitrakar

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

**Motion #14:** Move to accept the comment resolution in [doc.:11-18/1826r3] for CIDs listed below:

* + CIDs: 101, 568, 1067, 1172, 1173, 622, 1174, 853, 1175, 1125, 619, 791, 1069

**Move:** Lei Huang

**Second:** Rojan Chitrakar

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

**Motion #15:** Move to accept the comment resolution in [11-18/1869r1] for CIDs listed below:

-  CIDs: 435,436, 799

**Move:** Jeongki Kim

**Second:**Taewon Song

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

**Motion #16:** Move to accept the comment resolution in [11-18/1872r1] for CIDs listed below:

-  CIDs: 437,438

**Move:** Jeongki Kim

**Second:**Taewon Song

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

**Motion #17:** Move to accept the comment resolution in [11-18/1865r2] for CIDs listed below:

- CIDs: 359

**Move:** Jeongki Kim

**Second:**Taewon Song

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

**Motion #18:** Move to accept the comment resolution in [11-18/1874r2] for CIDs listed below:

- CIDs: 13, 14, 15, 366, 367, 407, 516, 780, 981, 1017

**Move:** Jeongki Kim

**Second:**Taewon Song

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

**Motion #19:** Move to accept the comment resolution in [11-18/1883r3] for CIDs listed below:

- CIDs: 64, 634, 635, 1089, 1090, 1091

**Move:** Jeongki Kim

**Second:**Taewon Song

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

**Motion #20:** Move to accept the comment resolution in [11-18/1965r4] for CIDs listed below:

- CIDs: 22, 25, 40, 41, 42, 43, 208, 231, 502, 1221, 1253

**Move:** Vinod Kristem

**Second:**Steve Shellhammer

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

NOTE: After the meeting finished, it was noted that the document was not on the server at the time of motion. The group will re-motion this in January 2019.

**Motion #21:** Move to accept the comment resolution in [11-18/1966r3] for CIDs listed below:

- CIDs: 206, 229, 230, 501, 752, 969, 970, 971, 1216, 1217, 1218, 1219

**Move:** Vinod Kristem

**Second:**Steve Shellhammer

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

NOTE: After the meeting finished, it was noted that the document was not on the server at the time of motion. The group will re-motion this in January 2019.

**Motion #22:** Move to accept the comment resolution in [doc.:11-18/2000r1] for CIDs listed below:

* + CIDs: 160, 215, 278, 1062, 1063, 1064, 1155

**Move:** Dennis Sundman

**Second:** Miguel Lopez

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

**Motion #1:** Move to accept the comment resolution in [doc.:11-18/1913r4] for CIDs listed below:

* + CIDs: 154, 201, 204, 205, 471, 839

**Move:** Leif Wilhelmsson

**Second:** Steve Shellhammer

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

**Presentations:**

**11-18/1886r1 “Comment Resolution for Miscellaneous Comments”, Taewon Song (LGE):**

CID 910 is changed from accept to revised based on the discussions.

**Q:** Minor comment, should be WUR Discovery frame transmission. The word frame is missing.

**Q:** WUR Discovery element. We have now two fields called WUR AP Parmeters. How about changing AP Parameter subfield to Discovery Parameters subfield?

**A:** I agree.

11-18/1886r2, containing the CIDs below, will be ready for motion

CIDs: 18, 19, 79, 150, 434, 458, 522, 606, 641, 716, 784, 845, 910, 1160 (14 CIDs)

**11-18/1903r0, “CR for WUR Beacon and Synchronization Part II”, Po-Kai Huang (Intel):**

Based on the discussions, CID 76 is deferred.

11-18/1903r1, containing the CIDs below, will be ready for motion

CIDs: 843, 1232, 176, 521, 1103, 1104, 818, 1163, 74, 75, ~~76,~~ 457, 758

**11-18/1923r2, “CR on CID 915 1100 and 1132”, Xiaofei Wang (InterDigital)**

**Q:** I don’t believe this is not a big problem in practice. One solution could be that the AP, if it does not obtain a response, simply switch to LDR. So I don’t believe there is a need to standardize this.

**A:** In principle I agree, but this may imply additional delay and we believe that the STA knows the channel conditions better than the AP and this knowledge should be used.

**11-18/1925r2, “CR for CID 915, 1100 and 1132”, Xiaofei Wang (InterDigital)**

**Q:** I don’t think it makes sense to recommend the rate for group address.

**A:** OK. I can remove the recommendation for group address.

**Q:** I believe some more time is needed offline for this comment.

**Recess 12.30 pm.**

**Thursday, November 15 2018, 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/18/11-18-1717-09-00ba-november-2018-tgba-agenda.pptx>

* Call meeting to order
* IEEE 802 and 802.11 IPR Policy and procedure
* TG timeline discussion
* Goal for January 2019 F2F meeting
* Teleconference call schedule
* Presentations
* Adjourn

**Minyoung calls the meeting to order at 1.30 pm. (About 12 persons in the room.)**

Minyoung reminds about recording the attendance.

Minyoung goes through the agenda and asks if there is any question. There are no questions and the agenda is approved.

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

**TGba Timeline discussion**

The TGba timeline, shown below, is left unchanged.

* **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
  + **May**: MDR (mandatory document review)
  + **September**: Formation of sponsor ballot pool
  + **November**: Sponsor ballot
* **2020:**
  + **September**: RevCom

**Goals for January 2019**

* Complete comment resolution on Draft 1.0
* Approve Working Group Technical Letter Ballot on TGba Draft 2.0
* Review TG timeline

**Teleconference Call Schedule:**

Proposed schedule: five Mondays, each 2 hours

* + November 26, December 3, (10:00 ET)
  + December 10, December 17, (17:00 ET)
  + January 7, (23:00 ET)

Minyoung asks if there are any objections to the proposed teleconference schedule. No objections and the proposed schedule will be used.

**Motions:**

**Motion #23:** Move to accept the comment resolution in [doc.:11-18/1886r2] for CIDs listed below:

* + CIDs: 18, 19, 79, 150, 434, 458, 522, 606, 641, 716, 784, 845, 910, 1160

**Move:** Taewon Song

**Second:** Jeongki Kim

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

**Motion #24:** Move to accept the comment resolution in [doc.:11-18/1903r1] for CIDs listed below:

CIDs: 843, 1232, 176, 521, 1103, 1104, 818, 1163, 74, 75, 457, 758

**Move:** Alfred Asterjadhi

**Second:** Po-Kai Huang

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

**Presentations:**

**11-18/1834r0, “Comment resolutions for 9.10.3.2”, Alfred Asterjadhi (Qualcomm):** Alfred goes through the CRs for 9.10.3.2.

Based on the discussions, the CIDs marked in red below are deferred and CID 388 is changed to rejected.

11-18/1834r1, containing the CIDs below, will be ready for motion

* 29, 30, ~~31, 89~~, 293, 294, 295, 388, 389, 390,
* 391, ~~401~~, 459, ~~525, 526~~, 541,637, ~~717, 718, 719~~,
* 787, ~~788~~, 789, ~~790, 883~~, 945, 1025, 1026, ~~1074~~, 1120,
* ~~1122~~, ~~1169, 1170~~, 1238

**11-18/1833r1, “Comment resolutions for 9.10.1 and 9.10.2”, Alfred Asterjadhi (Qualcomm):** Alfred goes through the CRs for 9.10.1 and 9.10.2.

Based on the discussions, the CIDs marked in red below are deferred. 11-18/1833r2, containing the CIDs below, will be ready for motion

* 84, 85, 86, 288, 289, 290, 291, 316, 377, 378,
* 379, 380, 381, 383, 384, 385, 386, 412, 523, 524,
* 597, 598, 599, 610, 785, 786, 847, 848, 849, 1110,
* 1111, 1112, 1113, 1114, 1115, ~~1116~~, 1117, 1118, 1144, 1165,
* 1166, 1167, 1168, 1234, 1235, ~~1236~~, 1237

**11-18/2046r0, “Comment Resolution on CID 982” Jeongki Kim (LGE):**

**Motion #27:** Move to accept the comment resolution in [doc.:11-18/2046r0] for CIDs listed below:

CIDs: 982

**Move:** Jeongki Kim

**Second:** Taewon Song

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

**Motion #25:** Move to accept the comment resolution in [doc.:11-18/1833r2] for CIDs listed below:

* + CIDs:84, 85, 86, 288, 289, 290, 291, 316, 377, 378, 379, 380, 381, 383, 384, 385, 386, 412, 523, 524, 597, 598, 599, 610, 785, 786, 847, 848, 849, 1110, 1111, 1112, 1113, 1114, 1115, 1117, 1118, 1144, 1165,1166, 1167, 1168, 1234, 1235, 1237

**Move:** Alfred Asterjadhi

**Second:** Po-Kai Huang

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

**Motion #26:** Move to accept the comment resolution in [doc.:11-18/1834r1] for CIDs listed below:

* CIDs:29, 30, 293, 294, 295, 388, 389, 390, 391, 459, 541,637, 787, 789, 945, 1025, 1026, 1120, 1238

**Move:** Alfred Asterjadhi

**Second:** Po-Kai Huang

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

**The meeting is adjourned 3.25 pm.**