IEEE P802.11  
Wireless LANs

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| IEEE 802.11 Task Group AY  January 2019 St. Louis Meeting Minutes | | | | |
| Date: 2019-01-23 | | | | |
| Author: | | | | |
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Abstract

Task Group AY meeting minutes from the IEEE 802.11 St. Louis session, January 13-18, 2019.

**IEEE 802.11 Task Group AY**

**January 2019 St. Louis interim Meeting**

**January 13-18, 2019**

**Monday, January 14, 2019, AM2 Session (10:30-12:30)**

Attendance: around 28 people

1. The IEEE 802.11ay task group meeting was called to order at 10:30 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/2116r2.
3. Chair introduced the TG leadership: Vice Chair: Sang Kim (LG Electronics), Secretary: Jeorge Hurtarte (LitePoint), and Editor: Carlos Cordeiro (Intel)
4. Chair reviewed the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures (slides 4-11)
   1. Chair asked if anyone has any questions about the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics or reminders. No questions.
   2. Chair asked if anybody has any disclosures related to the patent policy. None.
   3. Chair asked if there were any questions on any of the above items. None.
   4. Chair reminded all to record their attendance.
   5. Chair reminded all to upload their presentations.
5. Chair reviewed the meeting time slots, locations and agenda items for the week (see slide 13 of the agenda document).
6. Chair proceeded to discuss the agenda items for the Monday, January 13, 2019, Monday AM2 session (slide 15) and asked if anyone wants to add any additional agenda items (none).
7. Chair proceeded to discuss the agenda items for the week (slide 16) and asked if anyone wants to add any additional agenda items (none).
8. Chair reviewed the progress of the Task Group AY and a list of contributions being discussed in the teleconference calls (slides 17-21).
9. Chair reviewed Task Group Documents (slide 22).
10. Motion #537: Move to approve Task Group AY minutes of meetings from November 2018 plenary

* <https://mentor.ieee.org/802.11/dcn/18/11-18-2063-00-00ay-tg-ay-november-2018-bangkok-meeting-minutes.docx>
  1. Move: Assaf Kasher
  2. Second: Claudio da Silva
  3. No objections noted. Unanimous consent.
  4. The November 2018 plenary meeting minutes were approved.

1. Motion #538: Move to approve Task Group AY minutes of the teleconference calls on November 28, December 5, December 19, and January 9:

* <https://mentor.ieee.org/802.11/dcn/18/11-18-2070-00-00ay-tg-ay-november-28-2018-conference-call-meeting-minutes.docx>
* <https://mentor.ieee.org/802.11/dcn/18/11-18-2099-01-00ay-task-group-ay-december-2018-conference-call-meeting-minutes.docx>
* <https://mentor.ieee.org/802.11/dcn/19/11-19-0008-00-00ay-tg-ay-january-9-2019-conference-call-meeting-minutes.docx>
  1. Move: Assaf Kasher
  2. Second: Claudio da Silva
  3. No objections noted. Unanimous consent.
  4. The November 28, December 5, December 19, and January 9 conference calls meeting minutes were approved.

1. Chair reviewed the submissions scheduled for the week (slides 25-32).
2. Chair reviewed the agenda setting for the week (slide 33).
3. Chair reviewed the timeline the task group has approved in the November 2018 plenary (slide 34).
4. Motions
   1. Motion #539. Amended motion #524.

Move to accept the comment resolution for

* CIDs 3472, 3473, 3512, 3487, 3511, and 3631 as proposed in 18/1838r0;
* CIDs 3003, 3004, 3005, 3006, 3282, 3283, 3336, 3337, 3345, 3395, 3421, 3427, 3464, 3468, 3469, 3717, and 3718 as proposed in 18/1839r2; and
* CIDs 3096, 3463, 3474, 3735, 3664, 3716, 3737, and 3738 as proposed in 18/1985r0.
  + 1. Move: Oren Kedem
    2. Second: Claudio da Silva
    3. Result: The motion is passed (19 Yes; 0 No; 0 Abstain).
  1. Motion #540. Comment resolution.

Move to accept the comment resolution for

* CIDs 3055, 3562, 3353, 3066, 3409, and 3410 as proposed in 18/2067r1;
* CIDs 3539, 3540, and 3541 as proposed in 18/2146r0; and
* CID 3266 as proposed in 18/2120r2.
  + 1. Move: Solomon Trainin
    2. Second: Assaf Kasher
    3. Result: The motion is passed (16 Yes; 0 No; 0 Abstain).
  1. Motion #541. Comment resolution.

Move to accept the comment resolution for

* CID 3585 as proposed in 18/2075r1; and
* CIDs 3373, 3374, 3690, 3032, 3206, and 3475 as proposed in 18/2147r0.
  + 1. Move: Assaf Kasher
    2. Second: Alecsander Eitan
    3. Result: The motion is passed (18 Yes; 0 No; 0 Abstain).
  1. Motion #542. Comment resolution.

Move to accept the comment resolution for CID 3398 as proposed in 18/1766r1.

* + 1. Move: Claudio da Silva
    2. Second: Yan Xin
    3. Result: The motion is passed (19 Yes; 0 No; 0 Abstain).
  1. Motion #543. Comment resolution.

Move to accept the comment resolution for CIDs 3073, 3397, 3569, and 3570 as proposed in 18/2144r0.

* + 1. Move: Alecsander Eitan
    2. Second: Yan Xin
    3. Result: The motion is passed (18 Yes; 0 No; 0 Abstain).
  1. Motion #544. Comment resolution.

Move to accept the comment resolution for

* CIDs 3492 and 3692 as proposed in 18/2154r0; and
* CIDs 3246, 3308, 3344, 3429, 3430, 3431, 3432, 3543, 3544, 3545, 3564, and 3662 as proposed in 18/2155r0.
  + 1. Move: Ilya Bolotin
    2. Second: Claudio da Silva
    3. Result: The motion is passed (18 Yes; 0 No; 0 Abstain).
  1. Motion #545. Comment resolution.

Move to accept the comment resolution for CIDs 3234 and 3455 as proposed in 18/2150r0.

* + 1. Move: Lei Huang
    2. Second: Yan Xin
    3. Result: The motion is passed (18 Yes; 0 No; 0 Abstain).
  1. Motion #546. Bug fixes.

Move to include the text proposed in 18/2149r0 related to Figure 62 in clause 9.4.2.252 of Draft 2.1 of the IEEE 802.11ay draft amendment.

* + 1. Move: Lei Huang
    2. Second: Yan Xin
    3. Result: The motion is passed (19 Yes; 0 No; 0 Abstain).
  1. Motion #547. Coexistence Assurance Document

Move to approve contribution 17/1288r3 as the baseline document for the Coexistence Assurance Document: <https://mentor.ieee.org/802.11/dcn/17/11-17-1288-03-00ay-tgay-coexistence-assurance-document.docx>

* + 1. Move: Claudio da Silva
    2. Second: Solomon Trainin
    3. Result: The motion is passed (18 Yes; 0 No; 0 Abstain).

1. Comment resolution/Bug fixes presentations
   1. Presentation by Alecsander Eitan (Qualcomm), Resolution to CID related to DMG Link Margin element, Doc. IEEE 11-18/1785r1.
      1. Opened floor for discussion. Further revision is needed for CID 3042.
   2. Presentation by Assaf Kasher (Qualcomm), BRP bandwidth, Doc. IEEE 11-18/2168r0.
      1. Opened floor for discussion. The contribution is updated based on the comments received.
      2. Members do not have any technical concern on this revised contribution 18/2168r1. No straw poll is taken, and this contribution is ready for motion on Tuesday PM1.
   3. Presentation by Assaf Kasher (Qualcomm), Scheduled BF CIDs, Doc. IEEE 11-18/2075r2.
      1. Opened floor for discussion. Further discussion is needed for CIDs 3630, 3582, 3637, 3645, 3648, 3649, and 3655, especially on the use of “shall” versus “should”.
2. Meeting recessed at 12:30 and will resume on Monday PM2.

**Monday, January 14, 2019, PM2 Session (16:00-18:00)**

Attendance: around 30 people

1. The meeting was called to order at 16:01 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/2116r4.
3. Chair reminded all about the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics, and reminders on Task Group rules.
   1. Chair asked if anybody has any disclosures related to the patent policy. None.
   2. Chair reminded all to record their attendance.
4. Comment resolution presentations
   1. Presentation by Motozuka Hiroyuki (Panasonic), LB234 CID 3053, 3171, 3184, 3186, 3187, 3188, 3190, 3290, 3365, 3369, 3388, 3597, 3723 EDMG OFDM PHY, Spoofing and ShortSSW, Doc. IEEE 11-19/0043r0.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 6 CIDs as proposed in 19/0043r0, namely 3188, 3597, 3723, 3388, 3184, and 3186. No straw poll is taken, and these CIDs are ready for motion on Tuesday PM1.
      3. For CID 3171, further discussion is needed.
      4. For CIDs 3053, 3365, 3369, 3290, 3187, 3190, 3188, and 3597, a member asked for additional time to review but would confirm with the author whether any change is needed prior to Tuesday PM1. If there is no comment received from the member, then these 8 CIDs will also be ready for motion on Tuesday PM1.
   2. Presentation by Oren Kedem (Intel), Resolution of TDD BF Related CIDs, Doc. IEEE 11-18/2119r1.
      1. Opened floor for discussion. The resolution for CID 3413 is updated during the discussion.
      2. Members do not have any technical concern on the resolution for the following 20 CIDs as proposed in 18/2119r2, namely 3009, 3011, 3338, 3412, 3413, 3415, 3416, 3418, 3420, 3422, 3423, 3424, 3425, 3426, 3433, 3458, 3632, 3669, 3712, and 3715. No straw poll is taken, and these CIDs are ready for motion on Tuesday PM1.
      3. For CIDs 3110, 3112, 3561, and 3736, further discussion is needed.
   3. Presentation by Solomon Trainin (Qualcomm), Resolution of CIDs 3243, 3357, Doc. IEEE 11-19/0001r1.
      1. Opened floor for discussion. The proposed resolution is updated during the discussion.
      2. Members do not have any technical concern on the resolution for the following 2 CIDs as proposed in 19/0001r2, namely 3243 and 3357. No straw poll is taken, and these CIDs are ready for motion on Tuesday PM1.
   4. Presentation by Solomon Trainin (Qualcomm), Resolution of CIDs 3573, 3583, 3592, 3638, 3657, and 3689, Doc. IEEE 11-18/2158r1.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 6 CIDs as proposed in 18/2158r1, namely 3573, 3583, 3592, 3638, 3657, and 3689. No straw poll is taken, and these CIDs are ready for motion on Tuesday PM1.
5. Meeting recessed at 17:48 and will resume on Tuesday AM2.

**Tuesday, January 15, 2019, AM2 Session (10:30-12:30)**

Attendance: around 26 people

1. The meeting was called to order at 10:30 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/2116r5.
3. Chair reminded all about the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics, and reminders on Task Group rules.
   1. Chair asked if anybody has any disclosures related to the patent policy. None.
   2. Chair reminded all to record their attendance.
4. Comment resolution/Bug fixes presentations
   1. Presentation by Solomon Trainin (Qualcomm), LB234 CIDs 3581 basic TDD slot, Doc. IEEE 11-19/0010r1.
      1. Opened floor for discussion.
      2. Straw poll: Do you agree to rename "basic TDD slot" to "regular TDD slot"? Yes: 3, No: 0, Abstain: Majority
      3. The author proposed to reject the comment.
      4. Straw poll: Do you agree to reject the comment? Yes: 9, No: 1, Abstain: 9.
      5. Members do not have any further technical concern on the resolution for CID 3581 as proposed in 19/0010r1. This CID is ready for motion on Tuesday PM1.
   2. Presentation by Kome Oteri (InterDigital), D2.0 comment resolutions on hybrid beamforming - part 2, Doc. IEEE 11-19/0075r1.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 2 CIDs as proposed in 19/0075r1, namely 3054 and 3523. No straw poll is taken, and these CIDs are ready for motion on Tuesday PM1.
   3. Presentation by Cheng Chen (Intel), LB324-comment resolutions, Doc. IEEE 11-19/0060r1.
      1. Opened floor for discussion. The resolution for CID 3261 is updated during the discussion.
      2. Members do not have any technical concern on the resolution for the following 5 CIDs as proposed in 19/0060r2, namely 3739, 3359, 3510, 3261, and 3262. No straw poll is taken, and these CIDs are ready for motion on Tuesday PM1.
   4. Presentation by Cheng Chen (Intel), Changes to Link Measurement Request/Report frame format, Doc. IEEE 11-19/0059r0.
      1. Opened floor for discussion
      2. Members do not have any technical concern on this contribution 19/0059r0. No straw poll is taken, and this contribution is ready for motion on Tuesday PM1.
   5. Presentation by Kazuyuki Sakoda (Sony), Proposed resolution to time advertisement comments, Doc. IEEE 11-19/0109r1.
      1. Opened floor for discussion. The proposed resolution for CID 3576 is updated during the discussion.
      2. Members do not have any technical concern on the resolution for the following 2 CIDs as proposed in 19/0109r2, namely 3576 and 3577. No straw poll is taken, and these CIDs are ready for motion on Tuesday PM1.
   6. Presentation by Solomon Trainin (Qualcomm), LB234 Comment resolution for coex CIDs 3297 3361 3480 3658 3688 presentation, Doc. IEEE 11-18/2089r2.
      1. Opened floor for discussion.
   7. Presentation by Alecsander Eitan (Qualcomm), Resolution to CID related to DMG Link Margin element, Doc. IEEE 11-18/17855r2, on the revised CID 3042.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 13 CIDs as proposed in 18/1785r2, namely 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3000, 3042, 3075, 3587 and 3591. No straw poll is taken, and these CIDs are ready for motion on Tuesday PM1.
   8. Presentation by Alecsander Eitan (Qualcomm), CID 3579 resolution – ACI, Doc. IEEE 11-18/2121r1.
      1. Opened floor for discussion
      2. Members do not have any technical concern on the resolution for CID 3579 as proposed in 18/2121r1. No straw poll is taken, and this CID is ready for motion on Tuesday PM1.
5. Meeting recessed at 12:03 and will resume on Tuesday PM1.

**Tuesday, January 15, 2019, PM1 Session (13:30-15:30)**

Attendance: around 31 people

1. The meeting was called to order at 13:30 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/2116r7.
3. Chair reminded all about the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics, and reminders on Task Group rules.
   1. Chair asked if anybody has any disclosures related to the patent policy. None.
   2. Chair reminded all to record their attendance.
4. Motions
   1. Motion #548. Bug fixes.

Move to include the text proposed in 18/2168r1 related to clause 10.43.6.4.2, clause 10.43.10.5.1, and Annex B of Draft 2.1 of the IEEE 802.11ay draft amendment.

* + 1. Move: Assaf Kasher
    2. Second: Solomon Trainin
    3. Result: The motion is passed (19 Yes; 0 No; 0 Abstain).
  1. Motion #549. Comment resolution.

Move to accept the comment resolution for CIDs 3009, 3011, 3338, 3412, 3413, 3415, 3416, 3418, 3420, 3422, 3423, 3424, 3425, 3426, 3433, 3458, 3632, 3669, 3712, and 3715 as proposed in 18/2119r2.

* + 1. Move: Oren Kedem
    2. Second: Claudio da Silva
    3. Result: The motion is passed (17 Yes; 0 No; 0 Abstain).
  1. Motion #550. Comment resolution.

Move to accept the comment resolution for

* CIDs 3243 and 3357 as proposed in 19/0001r2;
* CIDs 3573, 3583, 3592, 3638, 3657, and 3689 as proposed in 18/2158r1; and
* CID 3581 as proposed in 19/0010r1.
  + 1. Move: Solomon Trainin
    2. Second: Alecsander Eitan
    3. Result: The motion is passed (17 Yes; 0 No; 0 Abstain).
  1. Motion #551. Comment resolution.

Move to accept the comment resolution for CIDs 3053, 3365, 3369, 3290, 3187, 3190, 3188, 3597, 3723, 3388, 3184, and 3186 as proposed in 19/0043r1.

* + 1. Move: Motozuka Hiroyuki
    2. Second: Sang Kim
    3. Result: The motion is passed (21 Yes; 0 No; 0 Abstain).
  1. Motion #552. Comment resolution.

Move to accept the comment resolution for CIDs 3054 and 3523 as proposed in 19/0075r1.

* + 1. Move: Kome Oteri
    2. Second: Li-Hsiang Sun
    3. Result: The motion is passed (19 Yes; 0 No; 0 Abstain).
  1. Motion #553. Comment resolution.

Move to accept the comment resolution for CIDs 3739, 3359, 3510, 3261, and 3262 as proposed in 19/0060r2.

* + 1. Move: Cheng Chen
    2. Second: Oren Kedem
    3. Result: The motion is passed (20 Yes; 0 No; 0 Abstain).
  1. Motion #554. Bug fixes.

Move to include the text proposed in 19/0059r0 related to the format of Link Measurement Request/Report frame in clauses 6.3.32.2, 9.6.6.4, 9.6.6.5, and 10.44 of Draft 2.2 of the IEEE 802.11ay draft amendment.

* + 1. Move: Cheng Chen
    2. Second: Solomon Trainin
    3. Result: The motion is passed (19 Yes; 0 No; 0 Abstain).
  1. Motion #555. Comment resolution.

Move to accept the comment resolution for CIDs 3576 and 3577 as proposed in 19/0109r2.

* + 1. Move: Solomon Trainin
    2. Second: Claudio da Silva
    3. Result: The motion is passed (20 Yes; 0 No; 0 Abstain).
  1. Motion #556. Comment resolution.

Move to accept the comment resolution for

* CIDs 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3000, 3042, 3075, 3587 and 3591 as proposed in 18/1785r2; and
* CID 3579 as proposed in 18/2121r1.
  + 1. Move: Alecsander Eitan
    2. Second: George Calcev
    3. Result: The motion is passed (19 Yes; 0 No; 0 Abstain).

1. Comment resolution presentations
   1. Presentation by Solomon Trainin (Qualcomm), LB234 Comment resolution for coex CIDs 3297 3361 3480 3658 3688, Doc. IEEE 11-18/2090r1.
      1. Opened floor for discussion. Further discussion is needed.
   2. Presentation by Sakamoto Takenori (Panasonic), Comment resolution on CID 3215 and 3713, Doc. IEEE 11-19/0032r0.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 2 CIDs as proposed in 19/0032r0, namely 3215 and 3713. No straw poll is taken, and these CIDs are ready for motion on Thursday.
   3. Presentation by Yan Xin (Huawei), LB234 comment resolution 3227 3444-3447, Doc. IEEE 11-19/0088r0.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 5 CIDs as proposed in 19/0088r0, namely 3227, 3444, 3445, 3446, and 3447. No straw poll is taken, and these CIDs are ready for motion on Thursday.
   4. Presentation by Alecsander Eitan (Qualcomm), Resolution to CIDs related to TPC, Doc. IEEE 11-18/2079r2.
      1. Opened floor for discussion
      2. Members do not have any technical concern on the resolution for the following 4 CIDs as proposed in 19/2079r2, namely 3572, 3521, 3522, and 3574. No straw poll is taken, and these CIDs are ready for motion on Thursday.
      3. For CIDs 3094, 3095, 3098, 3588, and 3571, the author considers the following straw poll, “Should we remove MCS from the Extended TPC text?”. The result of the straw poll is Y: 4, No: 1, Abstain: 12. The author will revise the proposed resolution for these 4 CIDs.
      4. For CID 3634, further edit is needed.
2. Chris Hansen (Peraso) called the order of the day.
3. Meeting recessed at 15:30 and will resume on Wednesday PM2.

**Wednesday, January 16, 2019, PM2 Session (16:00-18:00)**

Attendance: around 28 people

1. The meeting was called to order at 16:01 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/2116r8.
3. Chair reminded all about the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics, and reminders on Task Group rules.
   1. Chair asked if anybody has any disclosures related to the patent policy. None.
   2. Chair reminded all to record their attendance.
4. Comment resolution/Bug fixes presentations
   1. Presentation by Mohamed AbouelSeoud (Sony), Proposed resolution of CID 3518, Doc. IEEE 11-19/0019r1, and Proposed resolution of CID 3518 text, Doc. IEEE 11-19/0020r0.
      1. Opened floor for discussion. Further discussion is needed.
   2. Presentation by Motozuka Hiroyuki (Panasonic), LB234 CID 3053, 3171, 3184, 3186, 3187, 3188, 3190, 3290, 3365, 3369, 3388, 3597, 3723 EDMG OFDM PHY, Spoofing and ShortSSW, Doc. IEEE 11-19/0043r3, which is a follow-up discussion on a revised comment resolution for CID 3171, and a comment resolution for a new CID 3189.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 2 CIDs as proposed in 19/0043r3, namely 3171 and 3189. No straw poll is taken, and these CIDs are ready for motion on Thursday.
   3. Presentation by Oren Kedem (Qualcomm), Resolution of TDD RF related CIDs, Doc. IEEE 11-18/2119r2, which is a follow-up discussion on revised comment resolution for the following 4 CIDs, namely 3110, 3112, 3561, and 3736.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 4 CIDs as proposed in 18/2119r2, namely 3110, 3112, 3561, and 3736. No straw poll is taken, and these CIDs are ready for motion on Thursday.
   4. Presentation by Payam Torab (Facebook), TDD slot structure CIDs, Doc. IEEE 11-19/0157r0.
      1. Opened floor for discussion. The proposed resolution is updated during the discussion.
      2. Members do not have any technical concern on the resolution for the following 5 CIDs as proposed in 19/0157r0, namely 3034, 3035, 3036, 3558, and 3635. No straw poll is taken, and these CIDs are ready for motion on Thursday.
   5. Presentation by Solomon Trainin (Qualcomm), LB234 Comment resolution for coex CIDs 3297 3361 3480 3658 3688, Doc. IEEE 11-18/2090r2, which is a follow-up discussion on the revised comment resolution for the following 5 CIDs, namely 3297, 3361, 3480, 3658, and 3688,
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 5 CIDs as proposed in 18/2090r2, namely 3297, 3361, 3480, 3658, and 3688. No straw poll is taken, and these CIDs are ready for motion on Thursday.
   6. Presentation by Alecsander Eitan (Qualcomm), Resolution to CIDs related to TPC, Doc. IEEE 11-18/2079r3, which is a follow-up discussion on the revised comment resolution for the following 6 CIDs, namely 3094, 3095, 3098, 3588, 3571, and 3634.
      1. Opened floor for discussion
      2. Members do not have any technical concern on the resolution for the following 6 CIDs as proposed in 18/2079r3, namely 3094, 3095, 3098, 3588, 3571, and 3634. No straw poll is taken, and these CIDs are ready for motion on Thursday.
   7. Presentation by Assaf Kasher (Qualcomm), Long LDPC CW capability, Doc. IEEE 11-19/0164r0.
      1. Opened floor for discussion. The proposed resolution is updated during the discussion.
      2. Members do not have any technical concern on this contribution 19/0164r1. No straw poll is taken, and this contribution is ready for motion on Thursday.
5. Chair reviewed the agenda items for the remaining sessions. Members do not have any objection to consider motions on Thursday AM1 for the CIDs and contributions that are ready for motion.
6. Meeting recessed at 17:55 and will resume on Thursday AM1.

**Thursday, January 17, 2019, AM1 Session (08:00-10:00)**

Attendance: around 22 people

1. The meeting was called to order at 08:00 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/2116r10.
3. Chair reminded all about the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics, and reminders on Task Group rules.
   1. Chair asked if anybody has any disclosures related to the patent policy. None.
   2. Chair reminded all to record their attendance.
4. Motions
   1. Motion #557. Comment resolution.

Move to accept the comment resolution for CIDs 3215 and 3713 as proposed in 19/0032r0.

* + 1. Move: Sakamoto Takenori
    2. Second: Alecsander Eitan
    3. Result: The motion is passed (14 Yes; 0 No; 0 Abstain).
  1. Motion #558. Comment resolution.

Move to accept the comment resolution for CIDs 3227, 3444, 3445, 3446, and 3447 as proposed in 19/0088r0.

* + 1. Move: George Calcev
    2. Second: Tony Han
    3. Result: The motion is passed (15 Yes; 0 No; 0 Abstain).
  1. Motion #559. Comment resolution.

Move to accept the comment resolution for CIDs 3094, 3095, 3098, 3588, 3571, 3572, 3521, 3522, 3574, and 3634 as proposed in 18/2079r3.

* + 1. Move: Alecsander Eitan
    2. Second: George Calcev
    3. Result: The motion is passed (14 Yes; 0 No; 0 Abstain).
  1. Motion #560. Comment resolution.

Move to accept the comment resolution for CIDs 3171 and 3189 as proposed in 19/0043r3.

* + 1. Move: Assaf Kasher
    2. Second: Sang Kim
    3. Result: The motion is passed (12 Yes; 0 No; 0 Abstain).
  1. Motion #561. Comment resolution.

Move to accept the comment resolution for CIDs 3110, 3112, 3561, and 3736 as proposed in 18/2119r2.

* + 1. Move: Oren Kedem
    2. Second: Alecsander Eitan
    3. Result: The motion is passed (14 Yes; 0 No; 0 Abstain).
  1. Motion #562. Comment resolution.

Move to accept the comment resolution for CIDs 3034, 3035, 3036, 3558, and 3635 as proposed in 19/0157r1.

* + 1. Move: Carlos Cordeiro
    2. Second: Cheng Chen
    3. Result: The motion is passed (15 Yes; 0 No; 0 Abstain).
  1. Motion #563. Comment resolution.

Move to accept the comment resolution for CIDs 3297, 3361, 3480, 3658, and 3688 as proposed in 18/2090r2.

* + 1. Move: Solomon Trainin
    2. Second: Alecsander Eitan
    3. Result: The motion is passed (14 Yes; 0 No; 0 Abstain).
  1. Motion #564. Bug fixes.

Move to include the text proposed in 19/0164r1 related to clause 9.4.2.250.4 and Annex C of Draft 2.2 of the IEEE 802.11ay draft amendment.

* + 1. Move: Assaf Kasher
    2. Second: Claudio da Silva
    3. Result: The motion is passed (16 Yes; 0 No; 0 Abstain).

1. Comment resolution presentations
   1. Presentation by George Calcev (Huawei), CID resolutions for 3138 and 3527, Doc. IEEE 11-19/0112r0.
      1. Opened floor for discussion.
      2. Members do not have any technical concern on the resolution for the following 2 CIDs as proposed in 19/0112r0, namely 3138 and 3527. No straw poll is taken, and these CIDs are ready for motion.
   2. Presentation by Assaf Kasher (Qualcomm), Scheduled BF CIDs, Doc. IEEE 11-18/2075r3, which is a follow-up discussion on the revised comment resolution for CIDs 3630, 3582, 3637, 3645, 3648, 3649, and 3655.
      1. Opened floor for discussion. The proposed resolution is updated during the discussion.
      2. Members do not have any technical concern on the resolution for the following 7 CIDs as proposed in 18/2075r4, namely 3630, 3582, 3637, 3645, 3648, 3649, and 3655. No straw poll is taken, and these CIDs are ready for motion.
   3. Presentation by Mohamed AbouelSeoud (Sony), Proposed resolution of CID 3518, Doc. IEEE 11-19/0019r1, and Proposed resolution of CID 3518 text, Doc. IEEE 11-19/0020r0.
      1. Opened floor for discussion. There is still no consensus on the proposed resolution for this CID.
      2. Straw poll: Do you support the proposed resolution of CID 3518 as proposed in 19/0020r0? Yes: 6; No: 4; Abstain: 8. The author proposes to reject the comment and he is going to prepare a revised contribution 19/0020r1 with a rejection reason.
   4. Presentation by Assaf Kasher (Qualcomm), Beam tracking mandatory?, Doc. IEEE 11-19/0007r0.
      1. Opened floor for discussion.
      2. Straw poll: Do you support:

Option1: Beam Tracking Fully optional

Option2: Beam Tracking Mandatory for RX BT and optional for TX BT

Option3: Beam Tracking Fully Mandatory

* + 1. Result: Option 1: 1; Option 2: 2; Option 3: 11; Abstain: 4.
  1. Presentation by Carlos Cordeiro (Intel), Comment spreadsheet for LB234 (D2.0), Doc. IEEE 11-18/1483r5, on the remaining CIDs that are lack of resolution/submission.
     1. Opened floor for discussion.
     2. Members do not have any technical concern on the resolution for the following 5 CIDs as proposed in 18/1483r6, namely 3298, 3489, 3299, 3656, and 3211. No straw poll is taken, and these CIDs are ready for motion.
     3. Members do not have any technical concern to reject the following 8 CIDs as proposed in 18/1483r6 due to the lack of submission, namely 3595, 3594, 3593, 3575, 3636, 3661, 3644, and 3660. No straw poll is taken, and these CIDs are ready for motion.
  2. Presentation by Mohamed AbouelSeoud (Sony), Proposed resolution of CID 3518 text, Doc. IEEE 11-19/0020r1.
     1. Opened floor for discussion.
     2. Members do not have any technical concern on the resolution for CID 3518 as proposed in 19/0020r1. No straw poll is taken, and this CID is ready for motion.

1. Motions
   1. Motion #565. Comment resolution.

Move to accept the comment resolution for CIDs 3138 and 3527 as proposed in 19/0112r0.

* + 1. Move: George Calcev
    2. Second: Alecsander Eitan
    3. Result: The motion is passed (16 Yes; 0 No; 0 Abstain).
  1. Motion #566. Comment resolution.

Move to accept the comment resolution for CIDs 3630, 3582, 3637, 3645, 3648, 3649, and 3655 as proposed in 18/2075r4.

* + 1. Move: Assaf Kasher
    2. Second: Claudio da Silva
    3. Result: The motion is passed (15 Yes; 0 No; 0 Abstain).
  1. Motion #567. Comment resolution.

Move to accept the comment resolution for CID 3518 as proposed in 19/0020r1.

* + 1. Move: Mohamed Abouelseoud
    2. Second: Alecsander Eitan
    3. Result: The motion is passed (16 Yes; 0 No; 0 Abstain).
  1. Motion #568. Comment resolution.

Move to accept the comment resolution for CIDs 3298, 3469, 3299, 3666, and 3211 as proposed in 18/1483r5.

* + 1. Move: Carlos Cordeiro
    2. Second: Assaf Kasher
    3. Result: The motion is passed (15 Yes; 0 No; 0 Abstain).
  1. Motion #569. Comment resolution.

Move to reject CIDs 3595, 3594, 3593, 3575, 3636, 3661, 3644, and 3660 due to the lack of submission.

* + 1. Move: Carlos Cordeiro
    2. Second: Assaf Kasher
    3. Result: The motion is passed (16 Yes; 0 No; 0 Abstain).
  1. Motion #570. Amended motion #568.

Move to accept the comment resolution for CIDs 3298, 3489, 3299, 3656, and 3211 as proposed in 18/1483r5.

* + 1. Move: Carlos Cordeiro
    2. Second: Assaf Kasher
    3. Result: The motion is passed (14 Yes; 0 No; 0 Abstain).

1. Chair discussed on the agenda setting for Thursday PM1.
   1. Straw poll: Do you support Option 1 or Option 2?

Option 1:

Motion on recirculation WGLB

Technical presentations

Motion on technical presentation

Option 2:

Technical presentations

Motion on technical presentation

Motion on recirculation WGLB

* 1. Result: Option 1: 1; Option 2: 9; Abstain: 3

1. Meeting recessed at 09:58 and will resume on Thursday PM1.

**Thursday, January 17, 2019, PM1 Session (13:30-15:30)**

Attendance: around 28 people

1. The meeting was called to order at 13:30 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/2116r12.
3. Chair introduced the TG leadership: Vice Chair: Sang Kim (LG Electronics), Secretary: Jeorge Hurtarte (LitePoint), and Editor: Carlos Cordeiro (Intel).
4. Chair reminded all about the IEEE-SA patent policy, participation in IEEE 802 meetings, logistics, and reminders on Task Group rules.
   1. Chair asked if anybody has any disclosures related to the patent policy. None.
   2. Chair reminded all to record their attendance.
5. Chair reviewed the goals for the March 2019 plenary meeting (slide 89).
6. Chair discussed the upcoming teleconference schedule per slide 90 of Doc. IEEE 802.11-18/2116r12. There is no objection.
7. Technical presentations.
   1. Presentation by Assaf Kasher (Qualcomm), WLAN radar annex, Doc. IEEE 11-18/2095r1.
      1. Opened floor for discussion
   2. Presentation by Tony Han (Huawei), Further discussion for WLAN radar, Doc. IEEE 11-19/0080r0.
      1. Opened floor for discussion
      2. Straw poll: Which option do you prefer for adding radar functionality? (The corresponding draft text will be provided if Opt 4 is preferred)

Option 1. No change for the Spec., e.g., DMG CTS-to-Self, then any radar signal

Option 2. Scheme in [2], e.g., DMG PHY and EDMG PHY, RA=TA, adding TRN

Option 3. Modified scheme based on [2], e.g., DMG PHY, explicit indication by misusing RA=TA, adding TRN

Option 4. Dedicated explicit indication scheme based on [2], e.g., DMG PHY, dedicated explicit indication, adding TRN

Abstain

* + 1. Result: Option 1: 1; Option 2: 15; Option 3: 0; Option 4: 6.

1. Motion on technical presentation
   1. Motion #571. Technical presentation.

Move to incorporate the text change suggested in 18/2095r1 into the Draft 2.2 of the IEEE 802.11ay amendment.

* + 1. Move: Assaf Kasher
    2. Second: Solomon Trainin
    3. Result: The motion is passed (15 Yes; 3 No; 5 Abstain).

1. Motion on recirculation WGLB
   1. Motion #571. Recirculation WGLB.

Instruct the editor to prepare P802.11ay D3.0 and

Approve a 15 day Recirculation Working Group Technical Letter Ballot asking the question “Should P802.11ay D3.0 be forwarded to Sponsor Ballot?”

* + 1. Move: Claudio da Silva
    2. Second: Assaf Kasher
    3. Result: The motion is passed (21 Yes; 0 No; 1 Abstain).
    4. Chair mentioned that the WG Chair, Dorothy Stanley, will open the ballot tentatively on February 4, and close the ballot on an extended deadline on February 23.

1. Chair asked if there are any more agenda items to discuss during this meeting. None.
2. Chair asked if there are any objections to adjourn the meeting. None.
3. The Task Group AY St. Louis January 2019 interim meeting was adjourned on January 17, 2019 at 15:05.