IEEE P802.11  
Wireless LANs

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| IEEE 802.11 Task Group AY  July 2017 Berlin Plenary Meeting Minutes | | | | |
| Date: 2017-7-10 | | | | |
| Author: | | | | |
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Abstract

Task Group AY meeting minutes from the IEEE 802.11 Berlin session, July 9-14, 2017.

**IEEE 802.11 Task Group AY**

**July 2017 Berlin Plenary**

**July 9-14, 2017**

**Monday, July 10, 2017, PM2 Session (13:30-15:30)**

1. The IEEE 802.11ay task group meeting was called to order at 13:30 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-17/0868r1.
3. 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 4-12)
   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.
4. Chair introduced the leadership of the Task Group (slide 12).
5. Chair reviewed the meeting time slots, locations and agenda items for the week (see slides 13-14 of the agenda document).
6. Chair proceeded to discuss the agenda items for the Monday, July 10, 2017, Monday PM1 session (slide 16) and asked if anyone wants to add any additional agenda items (none).
7. Chair reviewed the progress of the Task Group AY and related documents (slides 17-23).
8. Motion #230: Motion to approve the May 2017 Daejeon meeting minutes.
   1. Move: Claudio da Silva
   2. Second: Sang Kim
   3. No objections noted. Unanimous consent.
   4. The May 2017 meeting minutes were approved.
9. Motion #231: Motion to approve Task Group AY minutes of meetings from the teleconference call on May 24, May 31, June 7, June 14, June 21 and June 28.
   1. Move: Claudio da Silva
   2. Second: Sang Kim
   3. No objections noted. Unanimous consent.
   4. The May 24, May 31, June 7, June 14, June 21 and June 28, 2017 meeting minutes were approved.
10. Chair reviewed the list of presentations submitted (slides 26-31) and schedule for presenting those during the week.
    1. Chair asked if there were any additional presentations submissions or changes to the agenda items. None.
11. Chair reviewed the agenda setting for the week (slide 32).
12. Presentations
    1. Presentation by Claudio da Silva (Intel), TRN subfield indexing, Doc. IEEE 11-17/0923r0.
       1. Opened the floor for discussion.
       2. Straw Poll #1. Do you agree to include the draft text proposed in 11-17-0923-00-00ay related to TRN subfield indexing into the 802.11ay draft spec?
          1. Yes: 40, No: 0, Abstain: 5
          2. Straw poll passed
    2. Presentation by Claudio da Silva (Intel), Data TRN transition interval, Doc. IEEE 11-17/0924r0.
       1. Opened the floor for discussion.
       2. Straw Poll #1. Do you agree to include the draft text proposed in 11-17-0924-00-00ay related to data/TRN transition interval into the 802.11ay draft spec?
          1. Yes: 29, No: 0, Abstain: 5
          2. Straw poll passed
    3. Presentation by Artyom Lomayev (Intel), Control mode PPDU transmission, Doc. IEEE 11-17/1040r0.
       1. Opened the floor for discussion.
       2. Straw Poll #1. Do you agree to define the Control PHY PPDU transmission as defined in (11-17-1040-00-00ay Control Mode PPDU Transmission)?
          1. Yes: 30, No: 0, Abstain: 4
          2. Straw poll passed
    4. Presentation by Saehee Bang (LG Electronics), CR on short SSW in A-BFT, Doc. IEEE 11-17/1038r0.
       1. Opened the floor for discussion.
    5. Presentation by Michael Grigat (Deutsche Telekom AG), mmWave Mesh Network Usage Model, Doc. IEEE 11-17/1019r1.
       1. Opened the floor for discussion.
13. Meeting recessed at 15:30 and will be resumed on Tuesday AM1.

**Tuesday, July 11, 2017, AM1 Session (08:00-10:00)**

1. The meeting was called to order at 08:00 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-17/0868r2.
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. Presentations
   1. Presentation by Artyom Lomayev (Intel), 30.5.8 Single carrier PPDU transmission, Doc. IEEE 11-17/1043r0.
      1. Opened floor for discussion
      2. Straw Poll #1. Do you agree to define the SC PHY PPDU transmission as defined in (11-17-1043-00-00ay 30 5 8 Single Carrier PPDU Transmission)?
         1. Yes: 30, No: 0, Abstain: 5
         2. Straw poll passed
   2. Presentation by Oren Kedem (Intel), EDMG BlockAck retransmission, Doc. IEEE 11-17/1026r0.
      1. Opened floor for discussion
      2. Straw Poll #1. Do you agree to accept the change proposed for clause 10.24.7.7 as shown in slides 9 and 10 of 17/1026r0 and include the proposed text in the 802.11ay draft amendment?
         1. Yes: 23, No: 1, Abstain: 0
         2. Straw poll passed
   3. Presentation by Saehee Bang (LG Electronics), CR on short SSW in A-BFT, Doc. IEEE 11-17/1038r1.
      1. Opened the floor for discussion. A few members point out that the changes introduced in revision 1 may create confusion and they prefer the original text as proposed in revision 0.
      2. Straw Poll #1. Do you agree to include the text for comment resolution on short SSW in A-BFT(11-17-1038-00-00ay-cr-on-short-ssw-in-a-bft) to the spec draft?
         1. Yes: 25, No: 0, Abstain: 3
         2. Straw poll passed
   4. Presentation by Solomon Trainin (Qualcomm), Draft 0.3 comment resolution, Doc. IEEE 11-17/1027r0.
      1. Opened the floor for discussion. Edits are made online for the CID 383 and the contribution is updated as 17/1027r1.
      2. Straw Poll #1. Do you agree to accept the proposed comment resolution in 17/1027r1 for CIDs 105, 149, 315, 316, 318, 322, 323, 324, 327, 383, 466, 482, 534 and 535?
         1. Yes: 25, No: 0, Abstain: 0
         2. Straw poll passed
   5. Presentation by Carlos Cordeiro (Intel), Comment resolution, Doc. IEEE 11-17/0649r5.
      1. Opened the floor for discussion.
      2. Straw Poll #1. Do you agree to accept comment resolution for CIDs 155, 38, 344, 345, 346, 348, 347, 330, 66, 60, 67 as proposed in doc 11-17/0649r5
         1. Approved with unanimous consent
         2. Straw poll passed
   6. Presentation by Jinmin Kim (LGE), EDMG-STF for OFDM in 2,3,4CB, Doc. IEEE 11-17/1028r0, and EDMG-STF for OFDM in 2,3,4CB draft, Doc. IEEE 11-17/1029r0.
      1. Opened the floor for discussion.
      2. Straw Poll #1. Do you agree to include the text for EDMG-STF for EDMG OFDM mode in CB>1 proposed in (11-17-1029-00-00ay-EDMG-STF for OFDM in 2,3,4CB Draft) to the spec draft?
         1. Yes: 28, No: 0, Abstain: 0
         2. Straw poll passed
5. Meeting recessed at 9:51 and will be resumed on Tuesday AM2.

**Tuesday, July 11, 2017, AM2 Session (10:30-12:30)**

1. The meeting was called to order at 10:31 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-17/0868r3.
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. Presentations
   1. Presentation by Claudio da Silva (Intel), CE TRN transmission in BRP TXSS, Doc. IEEE 11-17/1042r1.
      1. Continue open the floor for discussion
      2. Straw Poll #1. Do you agree to include the draft text proposed in 11-17-1042-01-00ay related to CE TRN transmission in BRP TXSS into the 802.11ay draft amendment?
         1. Yes: 34, No: 0, Abstain: 2
         2. Straw poll passed
   2. Presentation by Thomas Handte (Sony), Resolution of some preamble comments, Doc. IEEE 11-17/1075r0.
      1. Opened floor for discussion. Edits are made online for CID 64 and the contribution is updated as 17/1075r1.
      2. Straw Poll #1. Do you agree to adopt the comment resolutions to CIDs 10, 25, 61, 62, 64, 131, 133, 320, 481, 484, 518, and 520 as proposed in document 11-17/1075r1?
         1. Yes: 33, No: 0, Abstain: 1
         2. Straw poll passed
   3. Presentation by Lei Huang (Panasonic), CR on multiple sector feedback, Doc. IEEE 11-17/1033r0.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree to accept comment resolution as proposed in doc 11-17/1033r0?
         1. Yes: 23, No: 0, Abstain: 2
         2. Straw poll passed
   4. Presentation by Lei Huang (Panasonic), CR on SU/MU-MIMO BF training and feedback, Doc. IEEE 11-17/1041r0.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree to accept comment resolution as proposed in doc 11-17/1041r0?
         1. Yes: 35, No: 0, Abstain: 1
         2. Straw poll passed
   5. Presentation by Michael Grigat (Deutsche Telekom AG), mmWave distribution network usage model, Doc. IEEE 11-17/1019r2.
      1. Opened the floor for discussion.
      2. Straw Poll #1. Do you support replacing Usage Model 8 in document IEEE 802.11-15/0625r3 by the description of usage model “mmWave distribution network” (slides 8-10)?
         1. Yes: 48, No: 1, Abstain: 9
         2. Straw poll passed
5. Meeting recessed at 12:30 and will be resumed on Wednesday AM1.

**Wednesday, July 12, 2017, AM1 Session (08:00-10:00)**

1. The meeting was called to order at 08:00 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-17/0868r5.
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 #232: Do you agree to include the proposed text in 11-17-0431-00-00ay to the draft amendment?
      1. Move: Carlos Cordeiro
      2. Second: Claudio da Silva
      3. Result: The motion is passed (17 Yes; 0 No; 1 Abstain).
   2. Motion #233: Do you agree to make the following changes per the text described in 11-17-0818-02-00ay-updates-to-edca-channel-access-in-an-edmg-bss.docx?
      1. Move: Carlos Cordeiro
      2. Second: Claudio da Silva
      3. Result: The motion is passed (17 Yes; 0 No; 1 Abstain).
   3. Motion #234: Do you agree to accept resolutions to CID 227 in doc 11-17/0845r0?
      1. Move: Carlos Cordeiro
      2. Second: Claudio da Silva
      3. Result: The motion is passed (17 Yes; 0 No; 1 Abstain).
   4. Motion #235: Do you agree to include the text of 17/0870r3 for the subclause 30.6.7.2 into the draft amendment?
      1. Move: Artyom Lomayev
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (17 Yes; 0 No; 2 Abstain).
   5. Motion #236: Do you agree to accept the proposed comment resolution in 17/0892r4 for CIDs 4, 6, 128, 156, 158, 159, 414, and 415?
      1. Move: Artyom Lomayev
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (19 Yes; 0 No; 1 Abstain).
   6. Motion #237: Do you agree to accept the proposed comment resolution for CIDs 63 and 68 in 17/0893r2 and include the proposed changes into the draft amendment?
      1. Move: Artyom Lomayev
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (19 Yes; 0 No; 1 Abstain).
   7. Motion #238: Do you agree to define the scrambling for MCS 1 as described in (11-17-0904-00-00ay 30 5 7 3 3 Scrambler for MCS1 Encoding) and include the proposed text into the draft amendment?
      1. Move: Artyom Lomayev
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (19 Yes; 0 No; 1 Abstain).
   8. Motion #239: Do you agree to accept the resolutions given in 11-17-0919-01-00ay to the following CIDs: 73, 75, 89, 122, 123, 262, 263, 296, 298, 401, 409, 410, 411, 412, and 413?
      1. Move: Claudio da Silva
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (21 Yes; 0 No; 0 Abstain).
   9. Motion #240: Do you agree to include the changes described in 11-17-0938-03-00ay to enable Short SSW usage in CBAP by unassociated STAs in the draft amendment?
      1. Move: Hiroyuki Motozuka
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (21 Yes; 0 No; 1 Abstain).
   10. Motion #241: Do you agree to accept comment resolutions as proposed in doc 11-17/0921r4?
       1. Move: Carlos Cordeiro
       2. Second: Claudio da Silva
       3. Result: The motion is passed (24 Yes; 0 No; 2 Abstain).
   11. Motion #242: Do you agree to accept comment resolution for CIDs 303, 304, 305, 306, 309, 311, 317, 467, 308, 325, 336, 328, and 465 as proposed in doc 11-17/0649r5?
       1. Move: Carlos Cordeiro
       2. Second: Claudio da Silva
       3. Result: The motion is passed (23 Yes; 0 No; 1 Abstain).
5. Timeline discussion
   1. Chair reviews the timeline that the task group approved in November 2016 and comments that the milestone of producing Draft 1.0 at the end of this month is highly unrealistic. He asks the group two questions, namely one is whether the task group would focus on feature completion and comment resolution after Draft 1.0 is available, and when the task group believes Drafts 1.0 and 2.0 can be released.
6. Presentations
   1. Presentation by Takenori Sakamoto (Panasonic), CR on Tx BW of EDMG A-PPDU, Doc. IEEE 11-17/1056r0.
      1. Opened floor for discussion. A member asked a question on the MCS of EDMG-Header-A2. The question is not related to the comment resolution but it needs more offline discussion.
      2. Straw Poll #1. Do you agree to accept the resolution on transmission bandwidth of EDMG A-PPDU proposed in 11-17-1056-00-00ay?
         1. Yes: 20, No: 1, Abstain: 5
         2. Straw Poll passed
   2. Presentation by Assaf Kasher (Qualcomm), BRP comment resolution, Doc. IEEE 11-17/0922r1.
      1. Opened floor for discussion
      2. Straw Poll #1. Do you accept the resolutions to CIDs 27, 28, 36, 100, 363, 130, 174, 358,180, 233, 364**,** 235, 357, 442, 461, 360?
         1. Yes: 34, No: 0, Abstain: 3
         2. Straw Poll passed
   3. Presentation by Djordje Tujkovic (Facebook), Changes to IEEE 802.11ay in support of mmW distribution network use cases, Doc. IEEE 11-17/1022r0.
      1. Opened floor for discussion
7. Meeting recessed at 10:00 and will be resumed on Wednesday PM1.

**Wednesday, July 12, 2017, PM1 Session (13:30-15:30)**

1. The meeting was called to order at 13:31 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-17/0868r6.
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 #243: Do you agree to include the draft text proposed in 11-17-0923-00-00ay related to TRN subfield indexing into the 802.11ay draft amendment?
      1. Move: Claudio da Silva
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (21 Yes; 0 No; 0 Abstain).
   2. Motion #244: Do you agree to include the draft text proposed in 11-17-0924-00-00ay related to data/TRN transition interval into the 802.11ay draft amendment?
      1. Move: Claudio da Silva
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (20 Yes; 0 No; 1 Abstain).
   3. Motion #245: Do you agree to define the Control PHY PPDU transmission as defined in (11-17-1040-00-00ay Control Mode PPDU Transmission) and include the proposed text in the 802.11ay draft amendment?
      1. Move: Artyom Lomayev
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (22 Yes; 0 No; 0 Abstain).
   4. Motion #246: Do you agree to define the SC PHY PPDU transmission as defined in (11-17-1043-00-00ay 30 5 8 Single Carrier PPDU Transmission) and include the proposed text in the 802.11ay draft amendment?
      1. Move: Artyom Lomayev
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (23 Yes; 0 No; 0 Abstain).
   5. Motion #247: Do you agree to accept the change proposed for clause 10.24.7.7 as shown in slides 9 and 10 of 17/1026r0 and include the proposed text in the 802.11ay draft amendment?
      1. Move: Oren Kedem
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (21 Yes; 0 No; 0 Abstain).
   6. Motion #248: Do you agree to include the text for comment resolution on short SSW in A-BFT (11-17-1038-00-00ay-cr-on-short-ssw-in-a-bft) in the 802.11ay draft amendment?
      1. Move: Saehee Bang
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (23 Yes; 0 No; 0 Abstain).
   7. Motion #249: Do you agree to accept the proposed comment resolution in 17/1027r1 for CIDs 105, 149, 315, 316, 318, 322, 323, 324, 327, 383, 466, 482, 534 and 535?
      1. Move: Solomon Trainin
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (22 Yes; 0 No; 0 Abstain).
   8. Motion #250: Do you agree to accept comment resolution for CIDs 155, 38, 344, 345, 346, 348, 347, 330, 66, 60, 67 as proposed in doc 11-17/0649r5?
      1. Move: Carlos Cordeiro
      2. Second: Claudio da Silva
      3. Result: The motion is passed (25 Yes; 0 No; 0 Abstain).
   9. Motion #251: Do you agree to include the text for EDMG-STF for EDMG OFDM mode in CB>1 proposed in (11-17-1029-00-00ay-EDMG-STF for OFDM in 2,3,4CB Draft) to the spec amendment?
      1. Move: Sang Kim
      2. Second: Carlos Cordeiro
      3. Result: The motion is passed (24 Yes; 0 No; 1 Abstain).
   10. Motion #252: Do you agree to include the draft text proposed in 11-17-1042-01-00ay related to CE TRN transmission in BRP TXSS into the 802.11ay draft amendment?
       1. Move: Claudio da Silva
       2. Second: Carlos Cordeiro
       3. Result: The motion is passed (24 Yes; 0 No; 0 Abstain).
   11. Motion #253: Do you agree to adopt the comment resolutions to CIDs 10, 25, 61, 62, 64, 131, 133, 320, 481, 484, 518, and 520 as proposed in document 11-17/1075r1?
       1. Move: Thomas Handte
       2. Second: Carlos Cordeiro
       3. Result: The motion is passed (25 Yes; 0 No; 0 Abstain).
   12. Motion #254: Do you agree to accept comment resolution as proposed in doc 11-17/1033r0?
       1. Move: Sang Kim
       2. Second: Carlos Cordeiro
       3. Result: The motion is passed (25 Yes; 0 No; 0 Abstain).
   13. Motion #255: Do you agree to accept comment resolution as proposed in doc 11-17/1041r0?
       1. Move: Sang Kim
       2. Second: Carlos Cordeiro
       3. Result: The motion is passed (24 Yes; 0 No; 0 Abstain).
   14. Motion #256: Move to add a new usage model 10 in document IEEE 802.11-15/0625r3 by the description of usage model “mmWave distribution network” (slides 8-10 of 17/1019r2).
       1. Move: Michael Grigat
       2. Second: Hemanth Sampath
       3. Result: The motion is passed (28 Yes; 0 No; 0 Abstain).
   15. Motion #257: Do you agree to accept the resolution on transmission bandwidth of EDMG A-PPDU proposed in 11-17-1056-00-00ay?
       1. Move: Takenori Sakamoto
       2. Second: Carlos Cordeiro
       3. Result: The motion is passed (25 Yes; 0 No; 0 Abstain).
   16. Motion #258: Do you accept the resolutions to CIDs 27, 28, 36, 100, 363, 130, 174, 358, 180, 233, 364, 235, 357, 442, 461, and 360?
       1. Move: Assaf Kasher
       2. Second: Carlos Cordeiro
       3. Result: The motion is passed (25 Yes; 0 No; 0 Abstain).
5. Timeline discussion
   1. Chair continues lead the discussion on the timeline update.
      1. Straw Poll #1 on timeline update. Which option do you prefer on the release of Drafts 1.0 and 2.0?
         1. Option 1:
            1. Draft 1.0: September 2017
            2. Draft 2.0: January 2018
         2. Option 2:
            1. Draft 1.0: November 2017
            2. Draft 2.0: March 2018
         3. Option 3 (with one more comment collection period):
            1. Draft 1.0: January 2018
            2. Draft 2.0: May 2018
         4. Result: Option 1: 13; Option 2: 9; Option 3: 9.
      2. Straw Poll #2 on timeline update. Which option do you prefer on the release of Drafts 1.0 and 2.0?
         1. Option 1:
            1. Draft 1.0: September 2017
            2. Draft 2.0: January 2018
         2. Option 2:
            1. Draft 1.0: November 2017
            2. Draft 2.0: March 2018
         3. Result: Option 1: 13; Option 2: 15.
6. Presentations
   1. Presentation by Djordje Tujkovic (Facebook), Changes to IEEE 802.11ay in support of mmW distribution network use cases, Doc. IEEE 11-17/1022r0.
      1. Opened floor for discussion. Djordje mentions that he plans to work on reviewing the requirements put forward by the newly accepted use case and bring forward technical proposals for the next meeting in September 2017.
   2. Presentation by Artyom Lomayev (Intel), Proposed comment resolution for CID 1, 2, 23, 525, Doc. IEEE 11-17/0880r1.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree to accept the comment resolution for CIDs 1, 2, 23, and 525 proposed in (11-17-880-01-00ay Proposed Comment Resolution for CID 1, 2, 23 and 525 in 11ay)?
         1. Yes: 29, No: 0, Abstain: 0
         2. Straw Poll passed
   3. Presentation by James Wang (MediaTek), Comment resolution on CID for clause 10.38.9.4, Doc. IEEE 11-17/1119r1.
      1. Opened floor for discussion. Edits are made online during the discussion and the contribution is updated to 17/1119r2.
      2. Straw Poll #1. Do you agree to accept the proposed comment resolution in 17/1119r2 for CIDs 119 and 189?
         1. Yes: 26, No: 0, Abstain: 0
         2. Straw Poll passed
   4. Presentation by Artyom Lomayev (Intel), Proposed comment resolution for CID 462, Doc. IEEE 11-17/1047r0.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree to accept the comment resolution for CID 462 proposed in (11-17-1047-01-00ay Proposed Comment Resolution for CID 462)?
         1. Yes: 27, No: 0, Abstain: 0
         2. Straw Poll passed
7. Meeting recessed at 15:03 and will be resumed on Thursday AM2.

**Thursday, July 13, 2017, AM2 Session (10:30-12:30)**

1. The meeting was called to order at 10:30 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-17/0868r8.
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. Presentations
   1. Presentation by Artyom Lomayev (Intel), MCS set for OFDM PHY in 11ay, Doc. IEEE 11-17/0908r0, and 30.6.6 Modulation and coding scheme for OFDM mode, Doc. IEEE 11-17/0909r0.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree to define the MCS set for EDMG OFDM PHY as described in (11-17-909-00-00ay 30 6 6 Modulation and Coding Scheme for OFDM Mode)?
         1. Yes: 32, No: 0, Abstain: 0
         2. Straw Poll passed
   2. Presentation by Artyom Lomayev (Intel), 30.6.4 OFDM EDMG-CEF definition, Doc. IEEE 11-17/1108r0.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree to define the EDMG-CEF for OFDM PHY in case of NCB > 1 as described in (11-17-1108-00-00ay 30 6 4 OFDM EDMG-CEF Definition)?
         1. Yes: 31, No: 0, Abstain: 0
         2. Straw Poll passed
   3. Presentation by Yan Xin (Huawei), Rate 7/8 (1344,1176) LDPC code, Doc. IEEE 11-17/0069r1, and Draft text in 30.3.6.7 Rate-7/8 LDPC code matrix for generating 1344 bits codeword, Doc. IEEE 11-17/1061r1.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree to include the parity check matrix shown in “11-17-1061-01-00ay-rate 78 1344-LDPC code matrix” in the IEEE 802.11ay Draft Spec.?
         1. Yes: 32, No: 0, Abstain: 0
         2. Straw Poll passed
   4. Presentation by Rui Yang (InterDigital), Analog and baseband beam tracking in 802.11ay, Doc. IEEE 11-17/1096r1, and Draft text for analog and baseband beam tracking in 802.11ay, Doc. IEEE 11-17/1097r0.
      1. Opened floor for discussion. Online edits are made for 17/1097r0 during the discussion and the contribution is updated to 17/1097r1.
      2. Straw Poll #1. Do you agree to the changes in the specification draft as described in IEEE 802.11-17/1097r1 to define Beam Tracking and its associated signaling and procedures?
         1. Yes: 30, No: 0, Abstain: 3
         2. Straw Poll passed
5. Meeting recessed at 12:14 and will be resumed on Thursday PM1.

**Thursday, July 13, 2017, PM1 Session (13:30-15:30)**

1. The meeting was called to order at 13:30 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-17/0868r9.
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. Announcement. Chair reported to the task group that the teleconference call on August 9, which is subject to the Working Group approval, will focus on CID #64 that is under consideration in IEEE 802.11md, and the topic is related to the removal of DMG OFDM from the IEEE 802.11-2016 standards.
5. Presentations
   1. Presentation by Dejian Li (Huawei), Proposed resolution to SP allocation related CIDs, Doc. IEEE 11-17/1083r0.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree that the text in contribution 17/1083r0 (Proposed resolution to SP allocation related CIDs) shall be incorporated in the 11ay draft?
         1. Yes: 31, No: 0, Abstain: 4
         2. Straw Poll passed
   2. Presentation by Dejian Li (Huawei), Unsolicited RSS for SLS in DTI, Doc. IEEE 11-17/1084r0, and Proposed resolution to NoRSS related CIDs, Doc. IEEE 11-17/10850.
      1. Opened floor for discussion.
   3. Presentation by Rob Sun (Huawei), Comment resolution for CID 135 136 137 144, Doc. IEEE 11-17/1095r1.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree to adopt the comment resolutions to CID 135,136,137,144 as proposed in doc: IEEE 802.11-17/1095r1?
         1. Yes: 31, No: 0, Abstain: 2
         2. Straw poll passed
6. Timeline discussion
   1. Chair continues lead the discussion on the timeline update. He asks the task group to consider another straw poll on the timeline update. The main reason is that some members cannot attend the Wednesday PM1 session due to, e.g., the last-minute change of the room. There is no objection.
      1. Straw Poll #3 on timeline update. Which option do you prefer on the release of Drafts 1.0 and 2.0?
         1. Option 1:
            1. Draft 1.0: September 2017
            2. Draft 2.0: January 2018
         2. Option 2:
            1. Draft 1.0: November 2017
            2. Draft 2.0: March 2018
         3. Result: Option 1: 17; Option 2: 21.
7. Motions
   1. Motion #259: Move to accept the comment resolution for CIDs 1, 2, 23, and 525 proposed in the contribution 17/0880r1.
      1. Move: Artyom Lomayev
      2. Second: Claudio da Silva
      3. Result: The motion is passed (27 Yes; 0 No; 2 Abstain).
   2. Motion #260: Move to accept the proposed comment resolution in 17/1119r2 for CIDs 119 and 189.
      1. Move: James Wang
      2. Second: Claudio da Silva
      3. Result: The motion is passed (29 Yes; 0 No; 2 Abstain).
   3. Motion #261: Move to accept the comment resolution for CID 462 proposed in the contribution 17/1047r1.
      1. Move: Artyom Lomayev
      2. Second: Claudio da Silva
      3. Result: The motion is passed (34 Yes; 0 No; 1 Abstain).
   4. Motion #262: Move to define the MCS set for EDMG OFDM PHY as described in the contribution 17/0909r0 and include the proposal in the draft amendment..
      1. Move: Artyom Lomayev
      2. Second: Claudio da Silva
      3. Result: The motion is passed (33 Yes; 0 No; 0 Abstain).
   5. Motion #263: Move to define the EDMG-CEF for OFDM PHY in case of NCB > 1 as described in the contribution 17/1108r0 and include the proposal in the draft amendment..
      1. Move: Artyom Lomayev
      2. Second: Claudio da Silva
      3. Result: The motion is passed (32 Yes; 0 No; 0 Abstain).
   6. Motion #264: Move to include the parity check matrix shown in the contribution 17/1061r1 in the IEEE 802.11ay draft amendment.
      1. Move: Yan Xin
      2. Second: Claudio da Silva
      3. Result: The motion is passed (31 Yes; 0 No; 0 Abstain).
   7. Motion #265: Move to include the changes as described in IEEE 802.11-17/1097r0 to define Beam Tracking and its associated signaling and procedures in the 802.11ay draft amendment.
      1. Move: Rui Yang
      2. Second: Claudio da Silva
      3. Result: The motion is passed (31 Yes; 0 No; 0 Abstain).
   8. Motion #266: Move to include the text in the contribution 17/1083r0 in the IEEE 802.11ay draft amendment.
      1. Move: Dejian Li
      2. Second: Claudio da Silva
      3. Result: The motion is passed (28 Yes; 0 No; 3 Abstain).
   9. Motion #267: Move to adopt the comment resolutions to CIDs 135, 136, 137, 144 as proposed in doc: IEEE 802.11-17/1095r1.
      1. Move: Rob Sun
      2. Second: Claudio da Silva
      3. Result: The motion is passed (28 Yes; 0 No; 2 Abstain).
   10. Motion #268: Move to update the timeline on the release of Drafts 1.0 and 2.0 to November 2017 and March 2018, respectively.
       1. Move: Claudio da Silva
       2. Second: Rob Sun
       3. Result: The motion is passed (29 Yes; 1 No; 2 Abstain).
8. Presentations
   1. Presentation by Dejian Li (Huawei), Proposed resolution to NoRSS related CIDs, Doc. IEEE 11-17/10851.
      1. Opened floor for discussion.
      2. Straw Poll #1. Do you agree that the text in contribution 17/1085r1 (Proposed resolution to NoRSS related CIDs) shall be incorporated in the 11ay draft?
         1. Yes: 22, No: 0, Abstain: 4
         2. Straw Poll passed
9. Motion
   1. Motion #269: Move to include the text in the contribution 17/1085r0 in the IEEE 802.11ay draft amendment.
      1. Move: Dejian Li
      2. Second: Claudio da Silva
      3. Result: The motion is passed (29 Yes; 0 No; 2 Abstain).
10. Chair discussed the upcoming teleconference schedule per slide TBD of Doc. IEEE 802.11-17/0868r9. There is no objection.
11. Chairman reviewed the goals for the September 2017 interim meeting.
12. The Task Group AY Berlin meeting was adjourned on July 13, 2017, at 15:15.