IEEE P802.11  
Wireless LANs

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| IEEE 802.11 Task Group AY  May and June 2017 Conference Meeting Minutes | | | | |
| Date: 2017-06-28 | | | | |
| Author: | | | | |
| Name | Affiliation | Address | Phone | email |
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Abstract

Task Group AY meeting minutes from the IEEE 802.11 conference call session on May 24, May 31, June 7, June 14, June 21, and June 28, 2017.

**IEEE 802.11 Task Group AY**

**May 24, 2017 Conference Call Meeting**

**Wednesday, May 24, 2017, Conference Call Session (10:00-11:00 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00 ET by the Chair, Edward Au (Huawei).
2. Chair introduced himself and AY leadership.
3. Agenda Doc. IEEE 802.11-17/0844r2
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.
   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 by sending an email to chair and secretary.
5. Chair reviewed the list of updated task group documents (slide 10)
6. Chair reviewed the meeting agenda for the conference call (slide 11).
7. Presentations
   1. Presentation by Assaf Kasher (Qualcomm), Partial Multiple-Antenna SLS, Doc. IEEE 11-17/0431r0.
      1. Opened the floor for discussion.
      2. Straw Poll #1. Do you agree to include the proposed text in 11-17-0431-00-00ay to the draft amendment?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
   2. Presentation by Oren Kedem (Intel), Updates to EDCA channel access in an EDMG BSS, Doc. IEEE 11-17-0818r0.
      1. Opened the floor for discussion.
      2. Straw poll will be conducted in the next call.
8. Chair asks if there are any more agenda items to discuss. None.
9. Chair reminded all to send an email to chair or secretary in order to record their attendance.
10. Meeting adjourned at 10:54 ET.

**Appendix A: May 24, 2017, 10:00 a.m. ET Conference Call Attendance Log**

**Name and Affiliation:**

* Edward Au (Huawei)
* George Calcev (Huawei)
* Claudio da Silva (Intel)
* Alecsander Eitan (Qualcomm)
* Tony Han (Huawei)
* Assaf Kasher (Qualcomm)
* Oren Kedem (Intel)
* Artyom Lomayev (Intel)
* Bo Lu (Tensorcom)
* Li-Hsiang Sun (InterDigital)
* Xiaofei Wang (InterDigital)
* Gaius Wee (Panasonic)

**IEEE 802.11 Task Group AY**

**May 31, 2017 Conference Call Meeting**

**Wednesday, May 31, 2017, Conference Call Session (10:00-11:00 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00 ET by the Chair, Edward Au (Huawei).
2. Chair introduced himself and AY leadership.
3. Agenda Doc. IEEE 802.11-17/0846r1
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.
   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 by sending an email to chair and secretary.
5. Chair reviewed the list of updated task group documents (slide 10)
6. Chair reviewed the meeting agenda for the conference call (slide 11).
7. Presentations
   1. Presentation by Oren Kedem (Intel), Updates to EDCA channel access in an EDMG BSS, Doc. IEEE 11-17/0818r1, and PHY-CCA indication, Doc. IEEE 11-17/0865r0.
      1. Opened the floor for discussion. Edits are made online and the final version of the documents is 17/0818r2 and 17/0865r2.
      2. Straw Poll #1. Would 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. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
   2. Presentation by Lei Huang (Panasonic), Comment resolution on CID#227, Doc. IEEE 11-17-0845r0.
      1. Opened the floor for discussion.
      2. Straw Poll #1. Do you agree to accept resolutions to CID 227 in doc 11-17/0845r0?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
8. Editor discussed his proposed resolution on the following CIDs: 304, 306, 467, 303, 305, 311, 317, 325 and 309. Except CID 325, there are no objections on the proposed resolution and Editor will bring a motion to the Task Group in July plenary and ask for approval of his proposed resolutions on these CIDs.
9. Chair asked if there are any more agenda items to discuss. None.
10. Chair reminded all to send an email to chair or secretary in order to record their attendance.
11. Meeting adjourned at 10:59 ET.

**Appendix A: May 31, 2017, 10:00 a.m. ET Conference Call Attendance Log**

**Name and Affiliation:**

* Edward Au (Huawei)
* George Calcev (Huawei)
* Dana Ciochina (Sony)
* Carlos Cordeiro (Intel)
* Claudio da Silva (Intel)
* Tony Han (Huawei)
* Thomas Handte (Sony)
* Lei Huang (Panasonic)
* Oren Kedem (Intel)
* Sang Kim (LG Electronics)
* Frank La Sita (InterDigital)
* Artyom Lomayev (Intel)
* Hiroyuki Motozuka (Panasonic)
* Kome Oteri (InterDigital)
* Alphan Sahin (InterDigital)
* Li-Hsiang Sun (InterDigital)
* Xiaofei Wang (InterDigital)
* Gaius Wee (Panasonic)

**IEEE 802.11 Task Group AY**

**June 7, 2017 Conference Call Meeting**

**Wednesday, June 7, 2017, Conference Call Session (10:00-11:00 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00 ET by the Chair, Edward Au (Huawei).
2. Chair introduced himself and AY leadership.
3. Agenda Doc. IEEE 802.11-17/0881r1
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.
   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 by sending an email to chair and secretary.
5. Chair reviewed the meeting agenda for the conference call (slide 11).
6. Presentations
   1. Presentation by Artyom Lomayev (Intel), 30 6 7 2 OFDM Modulation, Doc. IEEE 11-17/0870r2.
      1. Opened the floor for discussion. Edits of the straw poll text are made online and the final version of the documents is 17/0870r3.
      2. Straw Poll #1. Do you agree to include the spec text of 17/0870r3 for the subclause 30.6.7.2 into the spec draft?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
   2. Presentation by Artyom Lomayev (Intel): Proposed Comment Resolution for CID 4, 6, 128, 156, 158, 159, 414, 415 in 11ay, Doc. IEEE 11-17/0892r2.
      1. Opened the floor for discussion. CIDs 158 and 159 need further work. Edits of the straw poll text are made online and the final version of the documents is 17/0892r3.
      2. Straw Poll #1. Do you agree to accept the proposed comment resolution in 17/0892r4 for CIDs 4, 6, 128, 156, 414, and 415??
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
   3. Presentation by Artyom Lomayev (Intel), Proposed Comment Resolution for CID 63, 68 in 11ay, Doc. IEEE 11-17/0893r0.
      1. Opened the floor for discussion. CID 68 needs further work. Edits of the straw poll text are made online and the final version of the documents is 17/0893r1.
      2. Straw Poll #1. Do you agree to accept the proposed comment resolution for CID 63 in 17/0893r1 and introduce the proposed changes into spec draft?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
7. Chair asked if there are any more agenda items to discuss. None.
8. Chair reminded all to send an email to chair or secretary in order to record their attendance.
9. Meeting adjourned at 11:00 ET.

**Appendix A: June 7, 2017, 10:00 a.m. ET Conference Call Attendance Log**

**Name and Affiliation:**

* Edward Au (Huawei)
* George Calcev (Huawei)
* Dana Ciochina (Sony)
* Thomas Handte (Sony)
* Chris Hansen (Peraso)
* Assaf Kasher (Qualcomm)
* Artyom Lomayev (Intel)
* Bo Lu (Tensorcom)
* Kome Oteri (InterDigital)
* Li-Hsiang Sun (InterDigital)
* Rob Sun (Huawei)
* Xiaofei Wang (InterDigital)
* Gaius Wee (Panasonic)
* Yan Xin (Huawei)

**IEEE 802.11 Task Group AY**

**June 14, 2017 Conference Call Meeting**

**Wednesday, June 14, 2017, Conference Call Session (10:00-11:00 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00 ET by the Chair, Edward Au (Huawei).
2. Chair introduced himself and AY leadership.
3. Agenda Doc. IEEE 802.11-17/0900r2
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.
   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 by sending an email to chair and secretary.
5. Chair reviewed the meeting agenda for the conference call (slide 11).
6. Presentations
   1. Presentation by Artyom Lomayev (Intel): Proposed Comment Resolution for CID 4, 6, 128, 156, 158, 159, 414, 415 in 11ay, Doc. IEEE 11-17/0892r4. It is a follow-up of the discussion last week on CIDs 158 and 159.
      1. Opened the floor for discussion.
      2. Straw Poll #1. Do you agree to accept the proposed comment resolution in 17/0892r4 for CIDs 4, 6, 128, 156, 158, 159, 414, and 415?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
   2. Presentation by Artyom Lomayev (Intel), Proposed Comment Resolution for CID 63, 68 in 11ay, Doc. IEEE 11-17/0893r2. It is a follow-up of the discussion last week on CID 68.
      1. Opened the floor for discussion.
      2. Straw Poll #1. Do you agree to accept the proposed comment resolution for CID 63 and 68 in 17/0893r2 and introduce the proposed changes into spec draft?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
   3. Presentation by Artyom Lomayev (Intel), MCS 1 LDPC Encoding Method Modification in 11ay, Doc. IEEE 11-17/0879r0, and 30.5.7.3.3 Scrambler for MCS1 encoding, Doc. IEEE 11-17/0904r0.
      1. Opened the floor for discussion.
      2. Straw Poll #1. 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)?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
7. Editor discussed his proposed resolution on the following CIDs: 308, 325, 336, and 328. Except CID 328, there are no objections on the proposed resolution and Editor will bring a motion to the Task Group in July plenary and ask for approval of his proposed resolutions on these CIDs.
8. Chair asked if there are any more agenda items to discuss. None.
9. Chair reminded all to send an email to chair or secretary in order to record their attendance.
10. Meeting adjourned at 11:01 ET.

**Appendix A: June 14, 2017, 10:00 a.m. ET Conference Call Attendance Log**

**Name and Affiliation:**

* Osama Aboul-Magd (Huawei)
* Edward Au (Huawei)
* George Calcev (Huawei)
* Carlos Cordeiro (Intel)
* Tony Han (Huawei)
* Chris Hansen (Peraso)
* Assaf Kasher (Qualcomm)
* Artyom Lomayev (Intel)
* Joe Levy (InterDigital)
* Bo Lu (Tensorcom)
* Hiroyuki Motozuka (Panasonic)
* Kome Oteri (InterDigital)
* Alphan Sahin (InterDigital)
* Li-Hsiang Sun (InterDigital)
* Rob Sun (Huawei)
* Gaius Wee (Panasonic)
* Yan Xin (Huawei)

**IEEE 802.11 Task Group AY**

**June 21 2017 Conference Call Meeting**

**Wednesday, June 21, 2017, Conference Call Session (10:00-11:00 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00 ET by the Chair, Edward Au (Huawei).
2. Chair introduced himself and AY leadership.
3. Agenda Doc. IEEE 802.11-17/0910r2
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.
   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 by sending an email to chair and secretary.
5. Chair reviewed the status of the comment resolution since the end of the May interim. He encouraged the members to prepare comment resolution and submit it for discussion in the July plenary.
6. Chair reviewed the meeting agenda for the conference call (slide 12).
7. Presentations
   1. Presentation by Claudio da Silva (Intel): Proposed resolution to 11ay related CIDs, Doc. IEEE 11-17/0919r0.
      1. The following CIDs are discussed: 122, 123, 401, 73, 89, 75, 262, 263, 296, 298, 409, 410, 411, 412, and 413.
      2. Opened the floor for discussion. CID 89 needs some additional edits. Edits of the resolution for CIDs 412 and 413 are made online and the final version of the documents is 17/0919r1.
      3. Straw Poll #1. 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. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
8. Editor discussed his proposed resolution on the following CIDs: 328, 465. There are no objections on the proposed resolution and Editor will bring a motion to the Task Group in July plenary and ask for approval of his proposed resolutions on these CIDs.
9. Chair reminded all to send an email to chair or secretary in order to record their attendance.
10. Meeting adjourned at 11:00 ET.

**Appendix A: June 21, 2017, 10:00 a.m. ET Conference Call Attendance Log**

**Name and Affiliation:**

* Edward Au (Huawei)
* George Calcev (Huawei)
* Carlos Cordeiro (Intel)
* Claudio da Silva (Intel)
* Alecsander Eitan (Qualcomm)
* Tony Han (Huawei)
* Lei Huang (Panasonic)
* Assaf Kasher (Qualcomm)
* Oren Kedem (Intel)
* Joe Levy (InterDigital)
* Vivian Liu (Huawei)
* Artyom Lomayev (Intel)
* Bo Lu (Tensorcom)
* Hiroyuki Motozuka (Panasonic)
* Kome Oteri (InterDigital)
* Alphan Sahin (InterDigital)
* Takenori Sakamoto (Panasonic)
* Rob Sun (Huawei)
* Yan Xin (Huawei)

**IEEE 802.11 Task Group AY**

**June 28 2017 Conference Call Meeting**

**Wednesday, June 28, 2017, Conference Call Session (10:00-11:00 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00 ET by the Chair, Edward Au (Huawei).
2. Chair introduced himself and AY leadership.
3. Agenda Doc. IEEE 802.11-17/0917r2
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.
   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 by sending an email to chair and secretary.
5. Chair reviewed the status of the comment resolution since the end of the May interim. He encouraged the members to prepare comment resolution and submit it for discussion in the July plenary.
6. Chair reviewed the meeting agenda for the conference call (slide 12). Revision number of the contribution 17/0921 is now revision 3.
7. Presentations
   1. Presentation by Gaius Wee (Panasonic): Short SSW format for unassociated STAs, Doc. IEEE 11-17/0916r2, and Short SSW format for unassociated STAs text, Doc. IEEE 11-17/0938r3.
      1. Opened the floor for discussion.
      2. Straw Poll #1. Do you agree to include the changes described in 11-17-0938-03-00ay to enable Short SSW usage in CBAP by unassociated STAs?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
   2. Presentation by Lei Huang (Panasonic): CR on SU-MIMO and MU-MIMO BF setup, Doc. IEEE 11-17/0921r3.
      1. Opened the floor for discussion. Online edits are made during the discussion and the latest version of the contribution used for the straw poll is revision 4.
      2. Straw Poll #1. Do you agree to accept comment resolutions as proposed in doc 11-17/0921r4?
         1. Chair asked if there is any member who votes no or abstain. None
         2. Chair asked if there is any objection to approve the straw poll with unanimous consent. None.
         3. Straw poll passed.
8. Chair reminded all to send an email to chair or secretary in order to record their attendance.
9. Meeting adjourned at 10:51 ET.

**Appendix A: June 28, 2017, 10:00 a.m. ET Conference Call Attendance Log**

**Name and Affiliation:**

* Edward Au (Huawei)
* George Calcev (Huawei)
* Cheng Chen (Intel)
* Carlos Cordeiro (Intel)
* Tony Xiao Han (Huawei)
* Lei Huang (Panasonic)
* Assaf Kasher (Qualcomm)
* Oren Kedem (Intel)
* Wei Lin (Huawei)
* Artyom Lomayev (Intel)
* Bo Lu (Tensorcom)
* Mengyao Ma (Huawei)
* Hiroyuki Motozuka (Panasonic)
* Alphan Sahin (InterDigital)
* Takenori Sakamoto (Panasonic)
* Gaius Wee (Panasonic)