IEEE P802.11
Wireless LANs

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| IEEE 802.11 Task Group AYApril 2018, Conference Meeting Minutes |
| Date: 2018-04-26 |
| 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 April 4, April 11, April 18, and April 25, 2018.

**IEEE 802.11 Task Group AY**

**April 2018 Conference Call Meeting**

**Wednesday, April 4, 2018, Conference Call Session (10:00-11:30 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00am ET by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0608r1.
3. Chair reviewed the IEEE-SA patent policy, 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, 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.
4. Chair reviewed the meeting agenda for the conference call (slide 10).
5. Chair reviewed the request from IEEE 802.3 on whether there is any potential need for a new IEEE 802.3 standards to support cabling requirements of future IEEE 802.11ad and IEEE 802.11ay systems. He also shared some background information on a similar request from IEEE 802.3 to IEEE 802.11 in 2014 which results in the IEEE 802.3az amendment. The task group asks IEEE 802.3 to provide more information including a presentation if necessary, and asks if the scope of work will be limited to twisted pair wiring.
6. Comment Resolution
	1. Presentation by Lei Huang (Panasonic), Comment resolution on MIMO BF misc, Doc. IEEE 11-18/0610r1.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on the following 7 CIDs, namely 1903, 1904, 1976, 2001, 2020, 2239, and 1342. No straw poll is taken, and these CIDs are ready for motion in the May 2018 interim.
	2. Presentation by Carlos Cordeiro (Intel), Annex B – PICS, Doc. IEEE 11-18/0643r0, which covers the following 21 CIDs, namely 1388, 1423, 1047, 1673, 1247, 1432, 1561, 1630, 2228, 1833, 1881, 1988, 1824, 1679, 1922, 2220, 1086, 1736, 1558, 1176, and 1638.
		1. Opened the floor for discussion. A member asks about how to deal with the possible scenarios that there is conflict between EDMG and TDD modes. A member comments that he will share with the task group an update on the Multi-TID Block Ack as proposed in B.4.12. A member asks for alignment with the latest text related to EDMG-P6.2.1.2.1.

1. Due to the limit of time, the submission 18/0547r1 will be postponed for presentation in April 11.
2. The next teleconference call is confirmed and held at 10:00am ET on April 11 (Wednesday).
3. Meeting adjourned at 11:32am ET.

**Appendix A: April 4, 2018, 10:00am ET Conference Call Attendance Log**

**Name and Affiliation:**

* Osama Aboul-Magd (Huawei)
* Edward Au (Huawei)
* George Calcev (Huawei)
* Cheng Chen (Intel)
* Carlos Cordeiro (Intel)
* Nelson Costa (Peraso)
* Claudio da Silva (Intel)
* Alecsander Eitan (Qualcomm)
* Xiao (Tony) Han (Huawei)
* Thomas Handte (Sony)
* Chris Hansen (Peraso)
* Allen Heberling (Self)
* Lei Huang (Panasonic)
* Assaf Kasher (Qualcomm)
* Sang Kim (LGE)
* Artyom Lomayev (Intel)
* Hiroyuki Motozuka (Panasonic)
* Kome Oteri (InterDigital)
* Al Petrick (Jones-Petrick and Associates)
* Payam Torab (Facebook)
* Solomon Trainin (Qualcomm)
* Gaius Wee (Panasonic)
* Yan Xin (Huawei)
* SK Yong (Apple)

**Wednesday, April 11, 2018, Conference Call Session (10:00-11:00 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00am ET by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0618r2.
3. Chair reviewed the IEEE-SA patent policy, 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, 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.
4. Chair reviewed the meeting agenda for the conference call (slide 10).
5. Technical Presentation
	1. Presentation by Xiao Tony Han (Huawei), Draft text for additional beamforming procedures for mmWave distributed network, Doc. IEEE 11-18/0547r1.
		1. Opened the floor for discussion.
		2. There are questions raised for clarification in both technical and editorial aspects. Authors are suggested to clean up the proposed text prior to asking the task group to consider approval in the May interim. Chair encourages the Task Group members to review the draft and provide the authors comments.
		3. Straw poll: Do you agree to include the proposed text in 18/0547r1 into the draft IEEE 802.11ay amendment?
			1. Straw poll is passed (Yes: 16, No: 1, Abstain: 8).
6. Due to the limit of time, the submission 18/0330r2 will be postponed for presentation in April 18.
7. The next teleconference call is confirmed and held at 10:00am ET on April 18 (Wednesday).
8. Meeting adjourned at 10:58am ET.

**Appendix B: April 11, 2018, 10:00am ET Conference Call Attendance Log**

**Name and Affiliation:**

* Edward Au (Huawei)
* Anuj Batra (Apple)
* George Calcev (Huawei)
* Cheng Chen (Intel)
* Carlos Cordeiro (Intel)
* Nelson Costa (Peraso)
* Claudio da Silva (Intel)
* Alecsander Eitan (Qualcomm)
* Xiao (Tony) Han (Huawei)
* Thomas Handte (Sony)
* Chris Hansen (Peraso)
* Allen Heberling (Self)
* Assaf Kasher (Qualcomm)
* Oren Kedem (Intel)
* Sang Kim (LGE)
* Artyom Lomayev (Intel)
* Mengyao Ma (Huawei)
* Hiroyuki Motozuka (Panasonic)
* Kome Oteri (InterDigital)
* Li-Hsiang Sun (InterDigital)
* Payam Torab (Facebook)
* Solomon Trainin (Qualcomm)
* Gaius Wee (Panasonic)
* Yan Xin (Huawei)
* Rui Yang (InterDigital)
* SK Yong (Apple)

**Wednesday, April 18, 2018, Conference Call Session (10:00-11:30 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00am ET by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0620r2.
3. Chair reviewed the IEEE-SA patent policy, 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, 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.
4. Chair reviewed the meeting agenda for the conference call (slide 10).
5. Comment Resolution
	1. Presentation by Artyom Lomayev (Intel), CID resolution – Part VII, Clause 30.7, 30.8, 30.9, Doc. IEEE 11-18/0330r2.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on the following 10 CIDs, namely 1665, 2100, 2101, 2102, 2329, 1325, 1326, 1327, 1825, and 1173. The resolution of CIDs 1325, 1326, 1825, and 1173 is updated from Accepted to Revised. No straw poll is taken, and these CIDs are ready for motion in the May 2018 interim.
		3. The following CID needs further discussion: 1415.
	2. Presentation by Artyom Lomayev (Intel), CID resolution for DCM modulation, Doc. IEEE 11-18/0331r0.
		1. Opened the floor for discussion.
		2. The following CIDs need further discussion on the abbreviation of the term “dual stream” and the renaming of the DCM modulation: 2095, 2096, 1624, 2033, and 2097.
	3. Presentation by Artyom Lomayev (Intel), CID resolution – part VIII, Doc. IEEE 11-18/0639r1.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on the following 6 CIDs, namely 1314, 2328, 1332, 2091, 1321, and 2098. No straw poll is taken, and these CIDs are ready for motion in the May 2018 interim.
	4. Presentation by Artyom Lomayev (Intel), CID resolution – part IX, Doc. IEEE 11-18/0640r1.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on the following 2 CIDs, namely 1934 and 1569. No straw poll is taken, and these CIDs are ready for motion in the May 2018 interim.
6. The next teleconference call is confirmed and held at 10:00am ET on April 25 (Wednesday).
7. Meeting adjourned at 11:26am ET.

**Appendix C: April 18, 2018, 10:00am ET Conference Call Attendance Log**

**Name and Affiliation:**

* Edward Au (Huawei)
* Anuj Batra (Apple)
* George Calcev (Huawei)
* Cheng Chen (Intel)
* Carlos Cordeiro (Intel)
* Nelson Costa (Peraso)
* Claudio da Silva (Intel)
* Xiao (Tony) Han (Huawei)
* Thomas Handte (Sony)
* Chris Hansen (Peraso)
* Allen Heberling (Self)
* Sang Kim (LGE)
* Artyom Lomayev (Intel)
* Hiroyuki Motozuka (Panasonic)
* Kome Oteri (InterDigital)
* Al Petrick (Jones-Petrick and Associates)
* Li-Hsiang Sun (InterDigital)
* Yan Xin (Huawei)
* Rui Yang (InterDigital)

**Wednesday, April 25, 2018, Conference Call Session (10:00-11:30 ET)**

1. The IEEE 802.11ay task group meeting was called to order at 10:00am ET by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/0621r2.
3. Chair reviewed the IEEE-SA patent policy, 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, 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.
4. Chair reviewed the meeting agenda for the conference call (slide 10).
5. Comment Resolution
	1. Presentation by Gaius Wee (Panasonic), CR for CID 1949, Doc. IEEE 11-18/0636r1.
		1. Opened the floor for discussion.
		2. As per a member’s comment, replace “It is ignored when transmitted by a non-EDMG STA” with “It is ignored when received by a non-EDMG STA” in page 3.
		3. A member expressed concern on the replacement of a figure and the name change of a few fields. More discussion is required.
	2. Presentation by Artyom Lomayev (Intel), CID resolution – Part VII, Clause 30.7, 30.8, 30.9, Doc. IEEE 11-18/0330r3.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on CID 1415, which was discussed in the April 18th teleconference call but needed more discussion. No straw poll is taken, and this CID is ready for motion in the May 2018 interim.
		3. Editor notes that CID 1825 is a duplicate CID.
	3. Presentation by Artyom Lomayev (Intel), CID resolution for DCM modulation, Doc. IEEE 11-18/0331r2.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on CIDs 2095, 2096, 1624, 2033, and 2097, which were discussed in the April 18th teleconference call but needed more discussion. No straw poll is taken, and these CIDs are ready for motion in the May 2018 interim.
6. Technical Presentation
	1. Presentation by Artyom Lomayev (Intel), Update on RXTIME computation for control mode, Doc. IEEE 11-18/0641r1.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on this contribution. No straw poll is taken, and this contribution is ready for motion in the May interim.
	2. Presentation by Mohamed Abouelseoud (Sony), Discussion on the multi-band discovery assistance proposal, Doc. IEEE 11-18/0703r0.
		1. Opened the floor for discussion. More discussion is required.
7. Due to the limit of time, the submission 18/0667r0 will be postponed for presentation on May 2.
8. The next teleconference call is confirmed and held at 10:00am ET on May 2 (Wednesday).
9. Meeting adjourned at 11:31am ET.

**Appendix D: April 25, 2018, 10:00am ET Conference Call Attendance Log**

**Name and Affiliation:**

* Mohamed Abouelseoud (Sony)
* Edward Au (Huawei)
* Anuj Batra (Apple)
* Ilya Bolotin (Intel)
* George Calcev (Huawei)
* Cheng Chen (Intel)
* Carlos Cordeiro (Intel)
* Nelson Costa (Peraso)
* Claudio da Silva (Intel)
* Alecsander Eitan (Qualcomm)
* Xiao (Tony) Han (Huawei)
* Thomas Handte (Sony)
* Chris Hansen (Peraso)
* Lei Huang (Panasonic)
* Assaf Kasher (Qualcomm)
* Oren Kedem (Intel)
* Sang Kim (LGE)
* Artyom Lomayev (Intel)
* Hiroyuki Motozuka (Panasonic)
* Kome Oteri (InterDigital)
* Al Petrick (Jones-Petrick and Associates)
* Solomon Trainin (Qualcomm)
* Gaius Wee (Panasonic)
* SK Yong (Apple)