IEEE P802.11
Wireless LANs

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| IEEE 802.11 Task Group AYSeptember 2018 Waikoloa Village Interim Meeting Minutes |
| Date: 2018-09-16 |
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Abstract

Task Group AY meeting minutes from the IEEE 802.11 May 2018 interim meeting in Warsaw, Poland, from September 9 to September 14, 2018.

**IEEE 802.11 Task Group AY**

**September 2018 Warsaw Interim Meeting**

**Monday AM2, September 10 (10:30-12:30 Hawaii local time)**

Attendance: around 28 people

1. The IEEE 802.11ay task group meeting was called to order at 10:30 Hawaii local time by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/1345r1.
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 introduced the leadership of the Task Group (slide 12).
6. Chair proceeded to present the schedule (slide 13) and discuss the agenda items for this interim meeting (slides 15-16) and asked if anyone wants to add any additional agenda items (none). There is no objection to approve the agenda items for this interim meeting and for this session.
7. Chair reviewed the accomplishments being made in the July 2018 plenary and the 2 teleconference calls on August 29 and September 5, 2018 (slides 17-20).
8. Chair proceeded to present an update on the Task Group documents (slide 21).
9. Motion #503. Move to approve Task Group AY minutes of meetings from July 2018 plenary.
	1. Move: Solomon Trainin
	2. Second: Claudio da Silva
	3. No objections noted. Unanimous consent.
	4. The July 2018 plenary meeting minutes were approved.
10. Motion #504: Move to approve Task Group AY minutes of the teleconference calls on August 29 and September 5.
	1. Move: Claudio da Silva
	2. Second: Yan Xin
	3. No objections noted. Unanimous consent.
	4. The meeting minutes of the teleconference calls on August 29 and September 5 were approved.
11. Chair reviewed the list of presentations submitted (slides 24-29) 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.
12. Chair reviewed the agenda setting for the week (slide 30). There is no objection to approve the agenda setting for the week.
13. Chair reminded the task group about the development of draft amendment (slide 31).
14. Chair reminded the task group about a few practices on comment resolution (slide 32).
15. Presentation
	1. Presentation by Dorothy Stanley (HPE), September 2018 802.11 Session
	WG Chair’s Supplementary Material, Doc. IEEE-11-18/1391r0, and Comment Resolution Tutorial, Doc. IEEE-11-13/0230r3.
		1. This tutorial is intended to help task group members to approve adequate comment resolutions to working group and sponsor letter ballots
		2. Opened the floor for discussion.
16. Comment Resolution
	1. Presentation by Carlos Cordeiro (Intel), Comment resolution, Doc. IEEE 802.11-18/1483r2.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on CIDs 3085, 3619, 3242, 3584, 3471, 3465, 3001, and 3286. No straw poll is taken, and these CIDs are ready for motion.
	2. Presentation by Solomon Trainin (Qualcomm), LB234 comment resolution for CIDs 3646, 3647, 3650, 3659, 3664, Doc. IEEE 802.11-18/1513r0.
		1. Opened the floor for discussion. Edits are made during the discussion and the latest version for consideration is 18/1513r1.
		2. Members do not have any technical concern on CIDs 3646, 3647, 3650, 3659, and 3664. No straw poll is taken, and these CIDs are ready for motion.
17. Meeting recessed at 12:18 Hawaii local time.

**Tuesday AM2, September 11 (10:30-12:30 Hawaii local time)**

Attendance: around 34 people

1. The IEEE 802.11ay task group meeting was called to order at 10:30 Hawaii local time by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/1345r2.
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.
4. Chair reviewed the meeting agenda for this session. There is no objection to approve the meeting agenda for this session.
5. Comment Resolution
	1. Presentation by Lei Huang (Panasonic), Comment resolution on MIMO BF related IEs, Doc. IEEE 802.11-18/1527r0.
		1. Opened the floor for discussion. Edits are made during the discussion and the latest version for approval is 18/1527r1.
		2. Members do not have any technical concern on CIDs 3555, 3394, 3556, and 3557. No straw poll is taken, and these CIDs are ready for motion.
	2. Presentation by Claudio da Silva (Intel), LB234 comment resolutions - PHY and BF, Doc. IEEE 802.11-18/1569r0.
		1. Opened the floor for discussion. Edits are made during the discussion and the latest version for approval is 18/1569r1.
		2. Members do not have any technical concern on CIDs 3169, 3270, 3709, 3185, 3217, 3733, 3300, 3218, 3219, 3277, 3536, 3389, 3693, 3350, 3351, 3352, 3028, 3078, 3529, 3237, 3530, and 3532. No straw poll is taken, and these CIDs are ready for motion.
		3. The following 3 CIDs are deferred for further review: CIDs 3139, 3271, and 3694.
6. Presentation
	1. Presentation by Aditya Padaki (Samsung), Framework to enhance DN-SRD coexistence, Doc. IEEE-11-18/1150r1.
		1. Opened the floor for discussion.
		2. The straw poll was discussed but not conducted based on the comments received.
7. Meeting recessed at 12:05 Hawaii local time.

**Wednesday AM1, September 12 (08:00-10:00 Hawaii local time)**

Attendance: around 25 people

1. The IEEE 802.11ay task group meeting was called to order at 08:00 Hawaii local time by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/1345r3.
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.
4. Chair reviewed the meeting agenda for this session. There is no objection to approve the meeting agenda for this session.
5. Comment Resolution
	1. Presentation by Cheng Chen (Intel), Resolution to CID 3245 and 3652, Doc. IEEE 802.11-18/1539r2.
		1. Opened the floor for discussion. Edits are made during the discussion.
		2. These two CIDs are deferred for further review.
	2. Presentation by Cheng Chen (Intel), Resolutions to CIDs related to TDD scheduling, MIMO channel access and power save - part 1, Doc. IEEE 802.11-18/1560r0.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on CIDs 3008, 3020, 3021, 3022, 3343, 3348, 3349, 3354, 3396, 3482, 3488, 3551, 3565, and 3566. No straw poll is taken, and these CIDs are ready for motion.
6. Presentation
	1. Presentation by Mohamed Abouelseoud (Sony), TDD-SP coexistence, Doc. IEEE-11-18/1586r0.
		1. Opened the floor for discussion.
		2. Straw poll text was discussed and edited based on the comments received. The latest version for approval is 18/1586r0
		3. Straw poll: Do you support the following approach for TDD-SP coexistence? “A STA employing TDD-SP shall transmit periodic beacon frame in the direction of each scheduled TDD-SP transmission to announce TDD-SP channel occupancy, scheduling information and spatial directional information so other STAs can take actions”.
			1. Results: 20 Yes, 0 No, 1 Abstain.
7. Comment Resolution
	1. Presentation by Assaf Kasher (Qualcomm), LB234 PHY service comment resolution, Doc. IEEE 802.11-18/1526r0.
		1. Opened the floor for discussion. Edits are made during the discussion and the latest version for approval is 18/1526r1.
		2. Members do not have any technical concern on CIDs 3195, 3370, 3371, and 3372. No straw poll is taken, and these CIDs are ready for motion.
		3. The following 2 CIDs are deferred for further review: CIDs 3373 and 3374.
		4. There is not sufficient time to finish the discussion on the proposed resolution for CID 3700. Discussion will be resumed in the next session.
		5. The following CID is postponed for discussion in the next session: CID 3199.
8. Meeting recessed at 10:03 Hawaii local time.

**Wednesday PM1, September 12 (13:30-15:30 Hawaii local time)**

Attendance: around 34 people

1. The IEEE 802.11ay task group meeting was called to order at 13:30 Hawaii local time by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/1345r4.
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.
4. Chair reviewed the meeting agenda for this session. There is no objection to approve the meeting agenda for this session.
5. Comment Resolution
	1. Presentation by Assaf Kasher (Qualcomm), LB234 PHY service comment resolution, Doc. IEEE 802.11-18/1526r1.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on CIDs 3700 and 3199. No straw poll is taken, and these CIDs are ready for motion.
6. Presentation
	1. Presentation by Morteza Hashemi (Sony), Benefits of multi-hop communications in 802.11ay, Doc. IEEE-11-18/1571r0.
		1. Opened the floor for discussion.
	2. Presentation by Kazuyuki Sakoda (Sony), Enabling STA to STA communication, Doc. IEEE-11-18/1572r0.
		1. Opened the floor for discussion.
7. Comment Resolution
	1. Presentation by Alecsander Eitan (Qualcomm), CCI support of TDD stations, Doc. IEEE 802.11-18/1647r1.
		1. Opened the floor for discussion.
	2. Presentation by Carlos Cordeiro (Intel), Comment resolution, Doc. IEEE 802.11-18/1483r2.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on CIDs 3666, 3033, 3012, 3023, 3248, 3002, 3026, 3025, 3384, and 3467. No straw poll is taken, and these CIDs are ready for motion.
	3. Presentation by Alecsander Eitan (Qualcomm), CID 3580 resolution, Doc. IEEE 802.11-18/1648r2.
		1. Opened the floor for discussion.
		2. This CID is deferred for further review based on the comments received.
8. Chair asked if there are no objections to cannel either Thursday AM1 or Thursday PM1 because of the lack of agenda items. Majority of the task group members prefer to keep Thursday PM1 whilst cancelling Thursday AM1.
	1. Thursday AM1 time slot will be cancelled.

1. Meeting recessed at 15:25 Hawaii local time.

**Thursday PM1, September 13 (13:30-15:30 Hawaii local time)**

Attendance: around 30 people

1. The IEEE 802.11ay task group meeting was called to order at 13:30 Hawaii local time by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-18/1345r6.
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.
4. Chair reviewed the meeting agenda for this session with an agenda request from Alecsander Eitan (Qualcomm) to ask the task group to consider approval of his proposed resolution for CID 3580 as proposed in 18/1648r3. Chris Hansen (Peraso) raised his objection to consider this agenda item because he believes that his comments were not addressed. Anuj Batra (Apple) also raised his objection because he needs more time to review the revised proposed resolution. Carlos Cordeiro (Intel) commented that it is a request for a motion rather than a request for an additional agenda item, and everyone can move a motion whenever needed. Chair ruled that it is a request for motion and he will ask the task group to consider it in the “Any Other Business” item. There is no objection to approve the revised meeting agenda for this session.
5. Motion #505: Move to accept the comment resolution for CIDs 3085, 3619, 3242, 3584, 3471, 3465, 3001, 3286, 3666, 3033, 3012, 3023, 3248, 3002, 3026, 3025, 3384, and 3467 as proposed in 18/1483r2.
	1. Moved: Carlos Cordeiro
	2. Seconded: Sang Kim
	3. Discussion: None
	4. Yes/No/Abstain: 17/0/0
	5. The motion is passed.
6. Motion #506: Move to accept the comment resolution for CIDs 3646, 3647, 3650, 3651, 3659, and 3664 as proposed in 18/1513r1.
	1. Moved: Solomon Trainin
	2. Seconded: Cheng Chen
	3. Discussion: None
	4. Yes/No/Abstain: 16/0/0
	5. The motion is passed.
7. Motion #507: Move to accept the comment resolution for CIDs 3555, 3394, 3556, and 3557 as proposed in 18/1527r1.
	1. Moved: Hiroyuki Motozuka
	2. Seconded: Yan Xin
	3. Discussion: None
	4. Yes/No/Abstain: 16/0/0
	5. The motion is passed.
8. Motion #508: Move to accept the comment resolution for CIDs 3169, 3270, 3709, 3185, 3217, 3733, 3300, 3218, 3219, 3277, 3536, 3389, 3693, 3350, 3351, 3352, 3028, 3078, 3529, 3237, 3530, and 3532 as proposed in 18/1569r1.
	1. Moved: Claudio da Silva
	2. Seconded: Yan Xin
	3. Discussion: None
	4. Yes/No/Abstain: 16/0/0
	5. The motion is passed.
9. Motion #509: Move to accept the comment resolution for CIDs 3008, 3020, 3021, 3022, 3343, 3348, 3349, 3354, 3396, 3482, 3488, 3551, 3565, and 3566 as proposed in 18/1560r0, and change the status of CID 3488 from Accept to Revise.
	1. Moved: Cheng Chen
	2. Seconded: Claudio da Silva
	3. Discussion: None
	4. Yes/No/Abstain: 15/0/0
	5. The motion is passed.
10. Motion #510: Move to accept the comment resolution for CIDs 3195, 3370, 3371, 3372, 3700, and 3199 as proposed in 18/1526r1.
	1. Moved: Assaf Kasher
	2. Seconded: Claudio da Silva
	3. Discussion: None
	4. Yes/No/Abstain: 15/0/0
	5. The motion is passed.
11. Comment Resolution
	1. Presentation by Mohamed Abouelseoud (Intel), LB234- Multi-band comments resolution, Doc. IEEE 802.11-18/1584r2.
		1. Opened the floor for discussion. Edits are made during the discussion and the latest version for approval is 18/1584r3.
		2. Members do not have any technical concern on CIDs 3515, 3362, 3059, 3516, 3517, 3514, 3307, 3060, 3513, 3061, and 3356. No straw poll is taken, and these CIDs are ready for motion.
	2. Presentation by Cheng Chen (Intel), Resolution to CID 3245 and 3652, Doc. IEEE 802.11-18/1539r5, which takes into account the comments he received in the past few days.
		1. Opened the floor for discussion.
		2. Members do not have any technical concern on CIDs 3245 and 3652. No straw poll is taken, and these CIDs are ready for motion.
12. Motion #511: Move to accept the comment resolution for CIDs 3515, 3362, 3059, 3516, 3517, 3514, 3307, 3060, 3513, 3061, and 3356 as proposed in 18/1584r3.
	1. Moved: Mohamed Abouelseoud
	2. Seconded: Kazuyuki Sakoda
	3. Discussion: None
	4. Yes/No/Abstain: 21/0/0
	5. The motion is passed.
13. Motion #512: Move to accept the comment resolution for CIDs 3245 and 3652 as proposed in 18/1539r5.
	1. Moved: Cheng Chen
	2. Seconded: Claudio da Silva
	3. Discussion: None
	4. Yes/No/Abstain: 19/0/0
	5. The motion is passed.
14. Chair reviewed the TG approved timeline as of the May 2018 interim (slide 54) and the proposed timeline that shows more detailed steps the task group needs to achieve (slide 55). Chair encouraged the task group members to review the timeline offline and his plan is to ask the task group to approve a revised timeline in the November 2018 plenary.
15. Chair reviewed the goals for the November 2018 plenary meeting (slide 56). He also emphasized that comment resolution submission is of higher priority.
16. Chair proceeded to discuss and confirm on the schedule for the conference calls till the beginning of the November 2018 plenary meeting (slide 57).
17. Motion #513: Move to accept the comment resolution for CID 3580 as proposed in 18/1648r3.
	1. Moved: Alecsander Eitan
	2. Seconded: Assaf Kasher
	3. Discussion took place on whether the revised comment resolution addressed the comments received in Wednesday PM1 and whether there are sufficient time for task group members to discuss and review on this comment resolution and the corresponding topic.
	4. Move to table the motion:
		1. Moved: Carlos Cordeiro
		2. Seconded: Sean Coffey
		3. Yes/No/Abstain: 19/0/02
		4. The motion is tabled.
18. Meeting recessed at 15:08 Hawaii local time.