IEEE P802.11
Wireless LANs

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| IEEE 802.11bd Task Group Meeting Minutes – July 2020 |
| Date: 2019-07-14 |
| Author(s): |
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Abstract

This document includes minutes of all IEEE 802.11bd during the July IEEE 802.11 meeting.

# Tuesday, July 14, 2020

## Opening (IEEE 802.11-20/0774r8)

* 1. Call to order 10:02 AM EDT
	2. There are 52 people on the webex call.
	3. Chair instructed members on how to use webex and to record attendance in IMAT.
	4. Chair introduced the patent policy and meeting rules.
	5. No response to the call for patents.
	6. Chair introduced the task group leadership

## Agenda (IEEE 802.11-20/0774r8)

* 1. Chair presented the agenda on slide 53.
	2. Agenda for this session has been adopted without objection

### Motion to approve previous meeting minutes

* 1. Motion: Move to approve the TGbd meeting minutes for Jan f2f meeting (11-20/016r0) and teleconferences from Feb 2020 to Jul 10th 2020 (11-20/0276r11)
	2. Moved: James Lepp (BlackBerry)
	3. Seconded: Dongguk Lim (LGE)
	4. No discussion
	5. Result: Motion passed with unanimous consent.

### Motion to update task group timeline

* 1. Motion: Move to approve the TGbd timeline update as below:
	2. 
	3. Moved: James Lepp (BlackBerry)
	4. Seconded: Joseph Levy (Interdigital)
	5. No Discussion
	6. Result: Motion passed with unanimous consent.

### Technical Editors Report (802.11-19/2045r5)

* 1. Presentation by Bahar Sadeghi (Intel) the task group editor
	2. Presentation didn’t proceed due to technical difficulties. Moved to later in the agenda.

### Strawpoll for comment resolution 1

* 1. Straw Poll: Do you agree on the comment resolutions to following 2 CIDs and the proposed spec text modification to IEEE P802.11bd D0.3 as in 11-20/0721r3? CID 152 and 154
	2. No discussion
	3. Strawpoll taken using the webex polling tool
	4. Preliminary result from the polling tool: Yes 16 /No 1 /Abstain 10/No response 29
	5. Comment that a member was unable to cast their vote using the tool. Suggestion to make the time window more than one minute.
	6. Chair will rerun the strawpoll with 3-minute timer. It is also acceptable to vote using the chat window if the voting tool is inaccessible.
	7. Yes 23 /No 1 /Abstain 16 /No response 15

### Strawpoll for comment resolution 2

* 1. Do you agree on the comment resolutions to CID 350 and the proposed spec text modification to IEEE P802.11bd D0.3 as in 11-20/0722r1?
	2. No discussion
	3. Strawpoll taken using the webex polling tool
	4. Yes 22 /No 0 /Abstain 12 /No response 18

### Strawpoll for comment resolution 3

* 1. Do you agree on the comment resolutions to following 5 CIDs and the proposed spec text modification to IEEE P802.11bd D0.3 as in 11-20/0723r1? CID 353, 354, 355, 356 and 357
	2. No discussion
	3. Strawpoll taken using the webex polling tool
	4. Yes 22 /No 0 /Abstain 11 /No response 19

### Technical Editors Report (802.11-19/2045r5)

* 1. Presentation by Bahar Sadeghi (Intel) the task group editor
	2. Presentation
		1. Comment database is updated to revision 2 (11-20/0701r2) with resolutions and strawpolls up to last week.
	3. Discussion
		1. Discussion about momentum needed to resolve all comments as soon as possible to meet out timeline.

### Strawpoll for 802-11/20-682r1

* 1. Presented by Miguel Lopez (Ericsson)
	2. Discussion
		1. Question about where randomization starts? Response that preamble is not randomized, but first midamble is where it starts. Makes it easier to specify. This applies to whichever mechanism is chosen.
		2. Question about pseudorandom size adjusted per data length. Comment that this was studied in 11ba, but it was found that longer than 126 doesn’t make a measurable difference. Suggestion that 126 is already specified in 11ba so reuse that value.
		3. Straw Poll 2
		4. Which randomization method for PPDUs with midambles do you prefer?
		5. **A)** Each LTF in a midamble is multiplied by a pseudo-random value $\pm 1$.

In the case of MIMO PPDUs, the same pseudo-random value is applied to both spatial streams.

The data part of the PPDU is not randomized

The method is illustrated in slides 4 and 5

**B)** All LTFs in a midamble are multiplied by a pseudo-random value $\pm 1.$ The data symbols immediately following any given midamble are multiplied by the same pseudo-random value as said midamble

In the case of MIMO PPDUs, the same pseudo-random value is applied to both spatial streams.

The method is illustrated in slide 8

* 1. Strawpoll taken using the webex polling tool
	2. Result of Strawpoll 2: A 5 /B 8 /Abstain 23 /No response 13
	3. Straw Poll 3
		1. Which method to generate the PN sequence used to randomize the midambles do you prefer?
		2. **A)** Use the PN sequence defined in (17-25) of IEEE 802.11-2016 (this is the sequence used to randomize the pilots)
		3. **B)** Some other method
		4. Discussion:
			1. Comment that there is already a sequence to multiply the pilots, and then there is another sequence to multiply by. Are there any issues? See no issues here.
	4. Strawpoll taken using the webex polling tool
	5. Result of Straw Poll 3: A 18 /B 0 /abstain 15 /no response 19

### Technical Presentation 802-11/20-1061r0

* 1. Presented by Dongguk Lim (LGE)
	2. Presenter went through proposed comment resolutions for section 32.3.7.3 of the draft
	3. Discussion about m or n in equation 32-16. Text in 32.3.7.3.2 will be changed to m.
	4. Comment that there shouldn’t be different pilot rotation in NGV-SIG and RNGV-SIG and RL-SIG. Suggestion is that they should be consistent.
	5. Comment that the repeated SIG is the same content, but the rotation is different.
	6. Commenter says that as long as its aligned with 11ax style then he is ok with the solution
	7. Time has run out. Presenter will continue at a future call.

### Closing

* 1. Time has runout for this meeting session.
	2. Meeting is adjourned at 12:00pm EDT

*Attendance will be published in the IEEE 802.11 July Plenary minutes (IEEE 802.11-20/1019).*

# Next Meetings

Plenary:

Online, Sept 14, 2020

<http://www.ieee802.org/11/Meetings/Meeting_Plan.html>

Teleconferences:

July 14, 17, 21, 24, 28, 31, Aug 4, 11, 18, 25 | Time 10-11:59am EDT | Webex

 Meeting Documents:

 <https://mentor.ieee.org/802.11/documents>

 Task Group Email reflector:

 <http://www.ieee802.org/11/email/stds-802-11-tgbd/index.html>

 Website:

 <http://www.ieee802.org/11/Reports/tgbd_update.htm>