IEEE P802.11  
Wireless LANs

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| IEEE 802.11bd Teleconference Meeting Minutes –  July, Aug, Sept 2020 | | | | |
| Date: 2019-07-22 | | | | |
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Abstract

This document includes minutes of all IEEE 802.11bd teleconferences between the July and September IEEE 802.11 meetings.

Version Tracking:

R0: uploaded after July 17 and 21 teleconferences

R1:

# Friday, July 17, 2020

## Opening (IEEE 802.11-20/0774r10)

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

## Agenda (IEEE 802.11-20/0774r10)

* 1. Chair presented the agenda as emailed to the mailing list <http://www.ieee802.org/11/email/stds-802-11-tgbd/msg00297.html>.
  2. Discussion about document 1086 title not being correct. Presenter will obtain a new document number with the correct title before presenting this morning.
  3. Agenda for this session has been adopted without objection

### Technical Contribution (802.11-20/1061r1)

* 1. Presented by Donggkuk Lim (LGE), continuing the presentation from July 14.
  2. Comment resolution for CID 334
  3. Discussion about note on phase rotation being normative or not.
  4. All CIDs presented
  5. Strawpoll on accepting these changes to D0.3 will be run in the next meeting.

### Technical Contribution (802.11-20/1110r1)

* 1. Presented by Jianhan Liu (MediaTek)
  2. Specification text contribution for DCM
  3. Presenter made small editorial changes to the equations as he presented
  4. Discussion
     1. Comment about how this is shown in the MCS table
     2. Comment that it should be “revised” as opposed to “accepted”
     3. Editorial comment, but sentence being questioned is the same as 11ax
  5. Presenter will upload r2 and be ready for a strawpoll in the next meeting.

### Technical Contribution (802.11-20/1101r1)

* 1. Presented by Donggkuk Lim (LGE)
  2. Comment resolution for CID 117
  3. Discussion
     1. Comment that this CID is also in another document 845r1.
     2. The resolution in this document is intended to replace the resolution proposed in 845r1
  4. This will be strawpolled in the next meeting.

### Closing

* 1. The agenda is complete for this meeting session.
  2. Meeting is adjourned at 12:00pm EDT

**Attendance from IMAT**

|  |  |
| --- | --- |
| An, Song-Haur | INDEPENDENT |
| Andersdotter, Amelia | None - Self-funded |
| Cao, Rui | NXP Semiconductors |
| Edelmayer, Andras | Commsignia |
| Kain, Carl | USDoT |
| Kim, Youn-Kwan | The Catholic University of Korea |
| Lansford, James | Qualcomm Incorporated |
| Lepp, James | BlackBerry |
| Levy, Joseph | InterDigital, Inc. |
| Lim, Dong Guk | LG ELECTRONICS |
| Liu, Jianhan | MediaTek Inc. |
| Motozuka, Hiroyuki | Panasonic Corporation |
| noh, yujin | Newracom Inc. |
| Schiessl, Sebastian | u-blox |
| Sun, Bo | ZTE Corporation |
| SURACI, FRANK | U.S. Department of Homeland Security |
| YANG, RUI | InterDigital, Inc. |
| yi, yongjiang | Futurewei Technologies |

# Tuesday, July 21, 2020

## Opening (IEEE 802.11-20/0774r11)

* 1. Call to order 10:02 AM EDT
  2. There are 18 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 802.11-20/0774r10, r11 will be uploaded after the meeting)

* 1. Chair presented the agenda as emailed to the mailing list <http://www.ieee802.org/11/email/stds-802-11-tgbd/msg00297.html>.
  2. Agenda for this session has been adopted without objection

### Straw Poll 1 (802.11-20/0774r10)

* 1. Straw poll on Dongguk Lim (LGE) comment resolutions for clause 32.3.7.3
  2. Discussion
     1. none
  3. Straw poll for 11-20/1061, the comment resolution for clause 32.3.7.3 NGV portion of NGV format preamble, Donggkuk Lim (LGE) [Continue] –  
     Straw Poll: Do you agree on the comment resolutions to following 39 CIDs and the proposed spec text modification to IEEE P802.11bd D0.3 as in 11-20/1061r1? CID 6, 17, 118, 119, 120, 148, 149, 150, 168, 169, 291, 292, 293, 294, 295, 296, 297, 298, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 315, 316, 317, 318, 319, 322, 323
  4. Straw poll taken with webex tool
  5. Yes 14/No 0/Abstain 2/No response 3

### Straw Poll 2 (802.11-20/0774r10)

* 1. Straw poll for Jianhan Liu (MediaTek) comment resolutions on clause 32.3.8.6
  2. Discussion
     1. none
  3. Straw poll for 11-20/1110, Comment Resolution for CID334 in Section 32.3.8.6, Jianhan Liu (MediaTek)  
     Straw Poll: Do you agree on the comment resolutions to CID 334 and the proposed spec text modification to IEEE P802.11bd D0.3 as in 11-20/1110r2?
  4. Straw poll taken with webex tool
  5. Yes 15 / No 0 / Abstain 2 / No response 4

### Straw Poll 3 (802.11-20/0774r10)

* 1. Straw poll on Dongguk Lim (LGE) comment resolutions for CID 117
  2. Discussion
     1. none
  3. Straw poll for 11-20/1101r2, the-comment-resolution-for-cid-117, Dongguk Lim (LGE)  
     Do you agree on the comment resolutions to CID 117 and the proposed spec text modification to IEEE P802.11bd D0.3 as in 11-20/1101r2 which will replace the comment resolution to CID 117 as in 11-20/0845r1?
  4. Straw poll taken with webex tool
  5. Yes 16 / No 0 / Abstain 0 / No response 5

### Technical Contribution (802.11-20/0682r2)

* 1. Presented by Miquel Lopez (Ericsson)
  2. Discussion
     1. Comment on the use of the term “time domain waveforms” – the specification should not forbid other implementations.
     2. Ans – agreed, will update the text
     3. Question the intent to apply this to both spatial streams or to all midambles?
     4. Ans – all midambles, will update the text
     5. Motion text updated to (uploaded as 802.11-20/0682r3):   
        Move to include the following text to section 3 of the 11bd SFD“PPDUs with midambles shall be randomized in order to suppress discrete spectrum components. The midambles symbols shall be multiplied by pseudo-random values plus/minus one. The data symbols immediately following any given midamble shall be multiplied by the same pseudo-random value as said midamble. In the case of MIMO PPDUs, the same pseudo-random values shall be applied to both symbols of the midamble. The pseudo-random values are defined in (17-25) of IEEE 802.11-2016”
     6. Question – is the randomization applied to each carrier or the whole symbol and which symbols is it applied to?
     7. Ans – the symbol and all midamble symbols
     8. Question – how will the receiver know the sequence?
     9. Ans – the receiver will know, as the sequence will be specified.
     10. Comment it is the same sequence as is used by the pilots
  3. Motion will be run the TGbd teleconference on Tuesday, 4 August 2020.

### Closing

* 1. There are 23 people on the webex call, at end of the meeting.
  2. Adjourned 11:05 AM ET

**Attendance from IMAT**

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| --- | --- |
| An, Song-Haur | INDEPENDENT |
| Cao, Rui | NXP Semiconductors |
| Edelmayer, Andras | Commsignia |
| Kain, Carl | USDoT |
| Kenney, John | TOYOTA InfoTechnology Center U.S.A. |
| Kim, Youn-Kwan | The Catholic University of Korea |
| Levy, Joseph | InterDigital, Inc. |
| Lim, Dong Guk | LG ELECTRONICS |
| Lopez, Miguel | Ericsson AB |
| Motozuka, Hiroyuki | Panasonic Corporation |
| noh, yujin | Newracom Inc. |
| Sadeghi, Bahareh | Intel Corporation |
| Sand, Stephan | German Aerospace Center (DLR) |
| Singh, Gurdev | SAMSUNG ELECTRONICS |
| Smely, Di Dieter | Kapsch TrafficCom AG |
| Sun, Bo | ZTE Corporation |
| SURACI, FRANK | U.S. Department of Homeland Security |
| Yee, Peter | NSA-CSD |
| yi, yongjiang | Futurewei Technologies |

# Next Meetings

Plenary:

Online, Sept 14, 2020

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

Teleconferences:

July 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>