IEEE P802.11
Wireless LANs

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| IEEE 802.11bd January 2021 TC meeting minutes  |
| Date: 2021-01-19 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yan Zhang | NXP | 350 Holger Way, San Jose, CA,  |  | yan.zhang\_5@nxp.com |

Abstract

This document includes minutes of all IEEE 802.11bd teleconferences on from January 19th to January 29th.

Version Tracking:

R0: January 19th,22nd and 29th teleconference meetings minutes

# Tuesday 19 January 2021 @ 9:00-11:00 am ET

## Opening (IEEE 802.11-20/1923r8)

* 1. Call to order 9:03 am ET
	2. Chair instructed members to record attendance in IMAT.
	3. Chair introduced the patent policy and meeting rules (slides 2-6).
	4. No response to the call for patents.
	5. Chair introduced IEEE-SA COPYRIGHT POLICY (slides 7-9)
	6. Chair reviewed other Guidelines for IEEE WG Meetings (slides 10-13)
	7. Chair reviewed current Teleconference plan, TGbd Documents Update, and current TGbd Timeline (slides 14-16)
	8. Chair reviewed submission list (slides 17-18)
	9. Chair introduced the task group leadership (slide 50)

## Agenda (IEEE 802.11-20/1923r8)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/20/11-20-1923-08-00bd-tgbd-teleconference-agenda-for-jan-2021.pptx. (slide 52):
		+ Call meeting to order and remind the group to record attendance on imat.ieee.org
		+ IEEE-SA IPR policies and meeting rules
		+ Approval of agenda (slide 52)
		+ Presentations and discussion (Call for submission)
			- SP for 11-21/0020
			- SP for 11-21/0021
			- SP for 11-21/0022
			- SP for 11-21/0023
			- Complete submission list as many as possible
		+ Next teleconference on Jan 22nd
		+ Adjourn
	2. Agenda was approved without objection

## SP for 11-21/0020r2

* 1. Do you agree on the comment resolution to following 3 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0020r2?
		+ -CID 1527, 1800 and 1801
		+ 9Y/0N/4A

## SP for 11-21/0021r0

* 1. Do you agree on the comment resolution to CID 1772 in 11-21/0021r2?
		+ 9Y/0N/3A

## SP for 11-21/0022r3

* 1. Do you agree on the comment resolution to following 10 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0022r3?
		+ -CID 1080, 1113, 1114, 1115, 1538, 1578, 1774, 1776, 1083 and 1817.
		+ 11Y/0N/3A

## SP for 11-21/0023r2

* 1. Do you agree on the comment resolution to following 3 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0023r2?
		+ -CID 1081, 1775 and 1777.
		+ 11Y/0N/3A

## 11-21/0024r2, the Comment resolution for 32.3.8.2.4, Dongguk Lim (LGE)

* 1. CID 1027, 1082, 1539, 1540 and 1778 discussions:
	2. CID 1317 discussions: A comment was made that the description of the rejection is not correct, and the commenter proposed the accurate description for the rejection of the comment.

## 11-21/0025r2, the Comment resolution for 32.3.8.2.5, Dongguk Lim (LGE)

* 1. CID 1116, 1664 and 1773 discussions: No discussions

## 11-21/0026r1, the Comment resolution for 32.3.8.3.3, Dongguk Lim (LGE)

* 1. CID 1818, 1514, 1668 and 1819 discussions: No discussions.

## 11-21/0027r1, the Comment resolution for 32.3.8.3.3, Dongguk Lim (LGE)

* 1. CID 1820 discussions: No discussions.
	2. CID 1084 discussions: A comment was made that the reason of the rejection is not valid, and the rejecting reason is the comment does not provide any spec changes based on the comment.

## 11-21/0028r1, the Comment resolution for 32.3.8.3.3, Dongguk Lim (LGE)

* 1. CID 1086, 1195, 1542, 1543, 1544, 1545, 1546, 1812, 1822, 1823, 1824, 1825 discussions: No discussions.

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on Jan. 22 at 9:00 am ET
	3. Chair adjourned the teleconference at 11:00 am ET

**Attendance from IMAT**

| **Name** | **Affiliation** |
| --- | --- |
| An, Song-Haur | INDEPENDENT |
| Sun, Bo | ZTE Corporation |
| Kenney, John | TOYOTA infoTechnology Center U.S.A |
| Kim, Youn-Kwan | Sync Techno |
| Sand, Stephan | German Aerospace Center (DLR) |
| Yan, Zhang | NXP |
| Edelmayer, Andras | Commsignia |
| Montemurro, Michael | Huawei Technologies Co. Ltd |
| Motozuka, Hiroyuki | Panasonic Corporation |
| Hong,Hanseul | WILUS Inc. |
| Kain, Carl | USDoT |
| Yee, Peter | NSA-CSD |
| Lim, DongGuk | LG Electronics |
| Smely, Di Dieter | Kapsch TrafficCom AG |
| Rosdahl, Jon | Qualcomm Technologies, Inc. |
| Zaman, Malia | IEEE-SA |
| Joseph, Levy | InterDigital |

# Friday 22 January 2021 @ 9:00-11:00 am ET

## Opening (IEEE 802.11-20/1923r9)

* 1. Call to order 9:03 am ET
	2. Chair instructed members to record attendance in IMAT.
	3. Chair introduced the patent policy and meeting rules (slides 2-6).
	4. No response to the call for patents.
	5. Chair introduced IEEE-SA COPYRIGHT POLICY (slides 7-9)
	6. Chair reviewed other Guidelines for IEEE WG Meetings (slides 10-13)
	7. Chair reviewed current Teleconference plan, TGbd Documents Update, and current TGbd Timeline (slides 14-16)
	8. Chair introduced the task group leadership (slide 57)

## Agenda (IEEE 802.11-20/1923r9)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/20/11-20-1923-09-00bd-tgbd-teleconference-agenda-for-jan-2021.pptx. (slide 59):
		+ Call meeting to order and remind the group to record attendance on imat.ieee.org
		+ IEEE-SA IPR policies and meeting rules
		+ Approval of agenda (slide 59)
		+ Presentations and discussion (Call for submission)
			- SP for 11-21/0024r2
			- SP for 11-21/0025r2
			- SP for 11-21/0026r1
			- SP for 11-21/0027r1
			- Re-cap of 11-21/0045 and SP
			- Complete submission list as many as possible
		+ Next teleconference on Jan 26th
		+ Adjourn
	2. Agenda was approved without objection

## SP for 11-21/0024r2, the Comment resolution for 32.3.8.2.4, Dongguk Lim (LGE)

* 1. Do you agree on the comment resolution to following 6 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0024r2?
		+ - CID 1027, 1082, 1317, 1539, 1540 and 1778
		+ 8Y/0N/4A

## SP for 11-21/0025r2, the Comment resolution for 32.3.8.2.5, Dongguk Lim (LGE)

* 1. Do you agree on the comment resolution to following 3 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0025r2?
		+ - CID 1116, 1664 and 1773
		+ 8Y/0N/3A

## SP for 11-21/0026r2, the Comment resolution for 32.3.8.3.3, Dongguk Lim (LGE)

* 1. Do you agree on the comment resolution to following 4 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0026r2?
		+ - CID 1818, 1541, 1668 and 1819
		+ 8Y/0N/3A

## SP for 11-21/0027r2, the Comment resolution for 32.3.8.3.3, Dongguk Lim (LGE)

* 1. Do you agree on the comment resolution to following 2 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0027r2?
		+ - CID 1084 and 1820
		+ 8Y/0N/3A

## Recap of 11-21/0045r2 CIDs 1154 1158 1444 1344 DMG STA operation in OCB, Hiroyuki Motozuka (Panasonic)

* + - CID 1154, 1158 and 1344 Recap: No discussions

## SP for 11-21/0045r2, CIDs 1154 1158 1444 1344 DMG STA operation in OCB, Hiroyuki Motozuka (Panasonic)

* 1. Do you agree on the comment resolution to following 3 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0045r2?
		+ - CID 1154, 1158 and 1344
		+ 7Y/0N/3A

## 11-21/0028r1, the Comment resolution for 32.3.8.3.3, Dongguk Lim (LGE)

* 1. CID 1826, 1827, 1828 discussions: No discussions.

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on Jan. 26 at 10:00 am ET
	3. Chair adjourned the teleconference at 11:00 am ET

**Attendance from IMAT**

| **Name** | **Affiliation** |
| --- | --- |
| Edelmayer, Andras | Commsignia |
| Sun, Bo | ZTE Corporation |
| Kenney, John | TOYOTA infoTechnology Center U.S.A |
| Petrick, Albert | InterDigital |
| Sand, Stephan | German Aerospace Center (DLR) |
| Yan, Zhang | NXP |
| Sakamoto, Takenori | Panosonic |
| Montemurro, Michael | Huawei Technologies Co. Ltd |
| Motozuka, Hiroyuki | Panasonic Corporation |
| Lim, Dong Guk | LG ELECTRONICS |

# Tuesday 26 January 2021 @ 10:00-11:00 am ET

## Opening (IEEE 802.11-20/1923r10)

* 1. Call to order 10:00 am ET
	2. Chair instructed members to record attendance in IMAT.
	3. Chair introduced the patent policy and meeting rules (slides 2-6).
	4. No response to the call for patents.
	5. Chair introduced IEEE-SA COPYRIGHT POLICY (slides 7-9)
	6. Chair reviewed other Guidelines for IEEE WG Meetings (slides 10-13)
	7. Chair reviewed current Teleconference plan, TGbd Documents Update, and current TGbd Timeline (slides 14-16)
	8. Chair introduced the task group leadership (slide 65)

## Agenda (IEEE 802.11-20/1923r10)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/20/11-20-1923-10-00bd-tgbd-teleconference-agenda-for-jan-2021.pptx. (slide 67):
		+ Call meeting to order and remind the group to record attendance on imat.ieee.org
		+ IEEE-SA IPR policies and meeting rules
		+ Approval of agenda (slide 67)
		+ Presentations and discussion (Call for submission)
			- SP for 11-21/0028r3
			- SP for 11-21/0044r3
			- Complete submission list as many as possible
		+ Next teleconference on Jan 29th
		+ Adjourn
	2. Agenda was approved without objection

## SP for 11-21/0028r3, the Comment resolution for 32.3.8.3.3, Dongguk Lim (LGE)

* 1. Do you agree on the comment resolution to following 15 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0028r3?
		+ - CID 1086, 1195, 1542, 1543, 1544, 1545, 1546, 1821, 1822, 1823, 1824, 1825, 1826, 1827 and 1828
		+ 12Y/0N/1A

## SP for 11-21/0044r3, LB251 CIDs related to DMG STA with OCB operation, Hiroyuki Motozuka (Panasonic)

* 1. Do you agree on the comment resolution to following 4 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0044r3?
		+ - CID 1216, 1444, 1445 and 1025
		+ 10Y/0N/3A

## 11-21/0126r0, Comment resolution for 32.3.9.9, Miguel Lopez (Ericsson)

* 1. CID 1504, 1505 and 1599 discussions: A comment was made that WTMA window function is not needed since shifting is already included in the rNGV-LTF function.

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on Jan. 29 at 10:00 am ET
	3. Chair adjourned the teleconference at 11:02 am ET

**Attendance from IMAT**

| **Name** | **Affiliation** |
| --- | --- |
| An, Song-Haur | Independent |
| Carney, William | Sony Corporation |
| Edelmayer, Andras | Commsignia |
| Haasz, Jodi | IEEE SA |
| Hong, Hanseul | WILUS Inc. |
| Sun, Bo | ZTE Corporation |
| Cao, Rui | NXP Semiconductors |
| Kenney, John | TOYOTA infoTechnology Center U.S.A |
| Levy, Joseph | InterDigial, Inc. |
| Lopez, Miguel | Ericsson AB |
| Sand, Stephan | German Aerospace Center (DLR) |
| Yan, Zhang | NXP |
| Montemurro, Michael | Huawei Technologies Co. Ltd |
| Motozuka, Hiroyuki | Panasonic Corporation |
| Petrick, Albert | Interdigital, Inc. |

# Friday 29 January 2021 @ 9:00-11:00 am ET

## Opening (IEEE 802.11-20/1923r11)

* 1. Call to order 9:03 am ET
	2. Chair instructed members to record attendance in IMAT.
	3. Chair introduced the patent policy and meeting rules (slides 2-6).
	4. No response to the call for patents.
	5. Chair introduced IEEE-SA COPYRIGHT POLICY (slides 7-9)
	6. Chair reviewed other Guidelines for IEEE WG Meetings (slides 10-13)
	7. Chair reviewed current Teleconference plan, TGbd Documents Update, and current TGbd Timeline (slides 14-16)
	8. Chair introduced the task group leadership (slide 70)

## Agenda (IEEE 802.11-20/1923r11)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/20/11-20-1923-11-00bd-tgbd-teleconference-agenda-for-jan-2021.pptx. (slide 72):
		+ Call meeting to order and remind the group to record attendance on imat.ieee.org
		+ IEEE-SA IPR policies and meeting rules
		+ Approval of agenda (slide 72)
		+ Presentations and discussion (Call for submission)
			- Complete submission list as many as possible
		+ Next teleconference on Feb 2nd
		+ Adjourn
	2. Agenda was approved without objection

## 11-21/0070r1, D1.0 Comment resolution for 31.2.2, Hanseul Hong (WILUS)

* 1. CID 1021 discussions: A question was asked about the meaning of virtual CS mechanism is available in OCB secondary channel. The presenter answered that SFD has a note that STA is not required to detect OCB secondary channel busy. The commenter suggested adding parameter to indicate when OCB secondary channel is available. The presenter answered that there is no CS mechanism for OCB secondary channel in the spec. The presenter will continue offline discussions with members.
	2. CID 1022 discussions: A question was asked about the backoff rules of the 20MHz channel related to CCA. The presenter answered that the rules she revised are from the SFD. The only modifications she did are rules e, f and g.
	3. CID 1024, 1225 discussions: no discussions.
	4. CID 1225 discussions: A question was asked EDCA rule of the secondary channel. The commenter said that he thinks 1609 manages the secondary channel backoff rule instead of 802.11 rules, and the changes made for this CID are basically based on 802.11 rule. The presenter answered that her understanding of this issue is different. Her understanding is that one of the 10MHz channel in the 20MHz operation is busy, then STA has to backoff. Another comment was made that he agrees with the presenter. Another question was asked if the conditions of OCB primary channel and OCB secondary channel have any dependency or they are separated. The presenter answered that there is no dependency between the two, and they can be merged in one sentence.
	5. CID 1227 discussions: A commenter asked the presenter to highlight her change to speed up review offline. A question was asked if we need go to reference 10.23.2.4 for more backoff details since backoff details for NGV has already listed in this part. The presenter answered that it is needed for backoff procedure.
	6. CID 1422, 1423, 1486, 1487 discussions: no discussions.
	7. CID 1487 discussions: A comment was made that PHY-CCA.indication needs to be the most recent one. Another commenter answered that it is ok since buffer only stores the most recent PHY-CCA.indication one, and it will be check for CCA status. A presenter said that she will have more offline discussions with other members since no agreements can be reached for now.
	8. CID 1494, 1789, 1790 discussions: no discussions.
	9. CID 1754 discussions: A question was asked if any specific rule defined in 11.15.9 which NGV STA does not follow since rules in 11.15.9 are very broad. The presenter answered that she will check offline and modify the Note accordingly.

## 11-20/1939r0, Resolution Clause 3 comments for LB-251, Joseph Levy (Interdigital)

* 1. CID 1255 discussions: A comment was made that OCB is not a mode, and the wording mode should be removed. The presenter agreed the changes.
	2. CID 1258 discussions: no discussion.
	3. CID 1515 discussions: A comment was made that the editor did some work on PAR title change, and the modification should be cooperated with the editor. A question was asked the PAR title should be the same as Amendment title. The vice-chair answered that the titles should be the same. The presented stated that it is easier to change Amendment title than changing PAR title. A comment was made that the editor had a document on renaming Amendment title.

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on Feb 2nd at 9:00 am ET
	3. Chair adjourned the teleconference at 11:02 am ET

**Attendance from IMAT**

| **Name** | **Affiliation** |
| --- | --- |
| Kain, Carl | USDoT |
| Kim, Youn-Kwan | Sync Techno |
| Edelmayer, Andras | Commsignia |
| Lumbatis, Kurt | CommScope, Inc. |
| Hong, Hanseul | WILUS Inc. |
| Sun, Bo | ZTE Corporation |
| Roder, Patricia | IEEE STAFF |
| Kenney, John | TOYOTA infoTechnology Center U.S.A |
| Levy, Joseph | InterDigial, Inc. |
| Rosdahl, Jon | Qualcomm Technologies, Inc |
| Sand, Stephan | German Aerospace Center (DLR) |
| Yan, Zhang | NXP |
| Montemurro, Michael | Huawei Technologies Co. Ltd |
| McCann, Stephen | Huawei Technologies Co. Ltd |
| Motozuka, Hiroyuki | Panasonic Corporation |
| Sosack, Robert | Molex Incorporated |
| Yee, Peter | NSA-CAD |
| Petrick, Albert | Interdigital, Inc. |