IEEE P802.11
Wireless LANs

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| IEEE 802.11bd January 2021 Interim meeting minutes  |
| Date: 2021-01-11 |
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Abstract

This document includes minutes of all IEEE 802.11bd January Interim teleconferences meetings from January 11th to January 13th.

Version Tracking:

R0: January 11th – 13th teleconference sessions

# Monday 11 January 2021 @ 11:15-13:15 am ET

## Opening (IEEE 802.11-20/1923r4)

* 1. Call to order 11:17 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 28)

## Agenda (IEEE 802.11-20/1923r4)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/20/11-20-1923-04-00bd-tgbd-teleconference-agenda-for-jan-2021.pptx. (slide 30):
		+ 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 30)
		+ IEEE P802.11bd D1.0 CR progress report (Tech editor)
			- 11-2019/2045r8, TGbd Editor’s Report, Bahar Sadeghi (Intel)
		+ Presentations and discussion (Call for submission)
			- SP for 11-20/1946r2,Resolutions to 32.3.15 Parameters for NGV-MCSs, Yujin Noh (Newracom)
			- SP for 11-20/1945r2,Resolutions to 32.3.5 NGV modulation and coding schemes, Yujin Noh (Newracom)
			- SP for 11-20/1948r2,Resolutions to 32.3.10 Transmit specification, Yujin Noh (Newracom)
			- Complete submission list as many as possible
		+ Next teleconference on Jan 12th
		+ Recess
	2. Agenda was approved without objection

## 11-19/2045r8, TGbd Editor’s Report, Bahar Sadeghi (Intel)

* 1. So far 310 editorial comments and 38 technical comments are resolved, many more under discussions.

## SP for 11-20/1946r2,Resolutions to 32.3.15 Parameters for NGV-MCSs, Yujin Noh (Newracom)

* 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 11-20/1946r2?
		+ - CID 1075 and 1685
		+ 24Y/1N/16A

## SP for 11-20/1945r2,Resolutions to 32.3.5 NGV modulation and coding schemes, Yujin Noh (Newracom)

* 1. Do you agree on the comment resolution to following 8 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-20/1945r2?
		+ - CID 1785, 1304, 1155, 1631, 1173, 1548, 1795 and 1570, with resolution to CID 1155, 1631, 1173, 1548 and 1795 as “Revised” and updated in 11-20/1945r3.
		+ 22Y/0N/16A

## SP for 11-20/1948r2,Resolutions to 32.3.10 Transmit specification, Yujin Noh (Newracom)

* 1. Do you agree on the comment resolution to following 8 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-20/1948r2?
		+ - CID 1088, 1322, 1586, 1587, 1677, 1089, 1588, and 1589
		+ 20Y/1N/20A

## 11-21/0016, comment-resolution-for-mathematical-description-and-related, Rui Cao (NXP)

* 1. CID 1536, 1765, 1811, 1537, 1802, 1501, 1657, 1770, 1813, 1815, 1502, 1694, 1503, 1658, 1771 and 1816 discussions: no discussion.

## 11-21/0005, cr-d1-0-clause-32-4, Bo Sun (ZTE)

* 1. CID 1006, 1330, 1331, 1332, 1469, 1593 and 1838discussions: no discussion.

## 11-21/0006, cr-d1-0-clause-17-2)17-3, Bo Sun (ZTE)

* 1. CID 1218: A comment was made that group-addressed can be considered as intended non-NGV recipient, and suggested to include group-addressed transmissions in the parenthesis after intended non-NGV recipient.
	2. CID 1560, 1561, 1151, 1150, 1559, 1619, 1412, 1620, 1763, 1562, 1563 and 1564 discussions: no discussion.

## 11-21/0051r2, LB251 CIDs related to DMG STA with OCB operation part II, Hiroyuki Motozuka (Panasonic)

* 1. CID 1159 and 1142: No discussion.

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on Jan. 12 at 9:00 am ET
	3. Chair adjourned the teleconference at 13:15 am ET

# Tuesday 12 January 2021 @ 9:00-11:00 am ET

## Opening (IEEE 802.11-20/1923r6)

* 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 14-17)
	8. Chair introduced the task group leadership (slide 35)

## Agenda (IEEE 802.11-20/1923r6)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/20/11-20-1923-06-00bd-tgbd-teleconference-agenda-for-jan-2021.pptx. (slide 37):
		+ 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 37)
		+ SP for presented CRs
			- SP for 11-21/0005r1, cr-d1-0-clause-32-4, Bo Sun (ZTE)
			- SP for 11-21/0006r1, cr-d1-0-clause-17-2\_17-3, Bo Sun (ZTE)
			- SP for 11-21/0051, CR for CIDs related to DMG STA with OCB operation part 2, Hiroyuki Motozuka (Panasonic)
			- SP for 11-20/1990r3, comment-resolution-for-receiver-specification, Rui Cao (NXP)
			- SP for 11-21/0016r2, comment-resolution-for mathematical-description-and-related, Rui Cao (NXP)
		+ Timeline discussion
		+ Motions for minutes, timeline and comment resolutions
		+ Presentations and discussion (Call for submission)
			- Complete submission list as many as possible
		+ Next teleconference on Jan 13th
		+ Recess
	2. Agenda was approved without objection

## SP for 11-21/0005r1, cr-d1-0-clause-32-4, Bo Sun (ZTE)

* 1. Do you agree on the comment resolution to the following 7 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0005r1?
		+ - CID 1006, 1330, 1331, 1332, 1469, 1593 and 1838
		+ 11Y/0N/9A

## SP for 11-21/0006r1, cr-d1-0-clause-17-2\_17-3, Bo Sun (ZTE)

* 1. Do you agree on the comment resolution to the following 13 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0006r1?
		+ - CID 1150, 1151, 1218, 1412, 1559, 1560, 1561, 1562, 1563, 1564, 1619, 1620 and 1763
		+ 10Y/0N/9A

## SP for 11-21/0051r2, CR for CIDs related to DMG STA with OCB operation part 2, Hiroyuki Motozuka (Panasonic)

* 1. Do you agree on the comment resolution to following 4 CIDs and proposed spec text modification to IEEE 802.11bd D1.0 as in 11-21/0051r2?
		+ - CID 1159, 1142, 1094 and 1442
		+ 11Y/0N/5A (10Y from system, 1Y from Bahar Sadeghi)

## SP for 11-20/1990r3, comment-resolution-for-receiver-specification, Rui Cao (NXP)

* 1. Do you agree on the comment resolution to following 24 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-20/1990r3?
		+ - CID 1005, 1090, 1091, 1092, 1111, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1194, 1547, 1590, 1591, 1592, 1596, 1597, 1678, 1679, 1680, and1786
		+ 10Y/0N/8A

## SP for 11-21/0016r2, comment-resolution-for mathematical-description-and-related, Rui Cao (NXP)

* 1. Do you agree on the comment resolution to following 16 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0016r2?
		+ - CID 1501, 1502, 1503, 1536, 1537, 1657, 1658, 1694, 1765, 1770, 1771, 1811, 1812, 1813, 1815 and 1816
		+ 12Y/0N/7A

## Timeline Discussion

* + - D2.0 LB recirculation milestone has to be postponed for two months due to the amount of comments received, and the following milestones have to be postponed for four months. A comments was made that RevCom and SASB approval will be Dec 2022, and 802 EC approval will be Oct 2022 to be realistic. A few members made comments that Final 802.11 WG approval and 802 EC approval can be done by Jul 2022, then RevCom and SASB approval will be Sep 2022.

## Motion #1 (TC minutes)

* 1. Move to approve the TGbd teleconference minutes for Nov 2020 IEEE 802.11 plenary week as in 11-20/1775r1, and minutes for TGbd teleconferences before IEEE 802.11 Jan-2021 interim week as in 11-20/1907r1.

<https://mentor.ieee.org/802.11/dcn/20/11-20-1775-01-00bd-ieee-802-11bd-november-2020-meeting-minutes-plenary.docx>

<https://mentor.ieee.org/802.11/dcn/20/11-20-1907-01-00bd-ieee-802-11bd-november-december-2020-meeting-minutes.docx>

* 1. Motion passed unanimously.

## Motion #2 (Timeline)

* 1. Move to approve the updated TGbd timeline as below

PAR approved Dec 2018

First TG meeting Jan 2019

D0.1 Nov 2019

D1.0 Letter Ballot Sep 2020 🡪 Oct 2020

D2.0 LB recirculation Jan 2021 🡪 Mar 2021

Form Sponsor Ballot Pool Mar 2021 🡪 Jul 2021

D3.0 LB recirculation Mar 2021 🡪 Sep 2021

D3.0 unchanged recirculation May 2021 🡪 Sep 2021

Initial Sponsor Ballot (D4.0) Jul 2021 🡪 Nov 2021

Final 802.11 WG approval May 2022 🡪 Jul 2022

802 EC approval May 2022 🡪 Jul 2022

RevCom and SASB approval Jun 2022 🡪 Sep 2022

* 1. Motion Passed unanimously.

## Motion #3 (CRs)

* 1. Move to approve the resolutions to 310 editorial comments and 56 non-editorial comments as included in 11-20/1887r4.

<https://mentor.ieee.org/802.11/dcn/20/11-20-1887-04-00bd-tgbd-lb251-comments.xlsx>

* 1. 15Y/0N/2A, Motion Passed.

## Motion #4 (CRs)

* 1. Move to approve the comment resolutions as in following CR documents:
		+ - Resolutions to 24 CIDs (1005, 1090, 1091, 1092, 1111, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1194, 1547, 1590, 1591, 1592, 1596, 1597, 1678, 1679, 1680, and1786) as in 11-20/1990r3
		+ - Resolutions to 16 CIDs (1501, 1502, 1503, 1536, 1537, 1657, 1658, 1694, 1765, 1770, 1771, 1811, 1812, 1813, 1815 and 1816) as in 11-21/0016r2
		+ -Resolutions to 7 CIDs (1006, 1330, 1331, 1332, 1469, 1593 and 1838) as in 11-21/0005r1
		+ - Resolutions to 13 CIDs ( 1150, 1151, 1218, 1412, 1559, 1560, 1561, 1562, 1563, 1564, 1619, 1620 and 1763) as in 11-21/0006r1
		+ - Resolutions to 4 CIDs (1159, 1142, 1094 and 1442) as in 11-21/0051r3
	2. 14Y/0N/3A, Motion Passed

## 11-21/0044r1, LB251 CIDs related to DMG STA with OCB operation, Hiroyuki Motozuka (Panasonic)

* 1. CID 1216, 1025: No discussion
	2. CID 1444 discussions: A comment suggested to replace “The STA” with “A STA sending DMG Beacon frames” under bullet a) in the presented document
	3. CID 1445 discussions: A question was asked if the subtype control frames, mentioned in the except part, are allowed by Clause 11.18. If they are not allowed, then no need for the sentence “except…”. A comment suggested to change the sentence to “A STA shall not sent Control frames disallowed by Clause 11.18, and those of subtype …”. The presenter deferred resolution after offline discussions for this CID.

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on Jan. 13 at 11:15 am ET
	3. Chair adjourned the teleconference at 10:55 am ET

# Wednesday 13 January 2021 @ 11:15-13:15 am ET

## Opening (IEEE 802.11-20/1923r7)

* 1. Call to order 11:17 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 47)

## Agenda (IEEE 802.11-20/1923r7)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/20/11-20-1923-07-00bd-tgbd-teleconference-agenda-for-jan-2021.pptx. (slide 49):
		+ 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 49)
		+ Presentations and discussion (Call for submission)
			- Complete submission list as many as possible
		+ Next teleconference on Jan 19th
		+ Adjourn
	2. Agenda was approved without objection

## 11-21/0045r1,CIDs 1154 1158 1344 DMG STA operation in OCB, Hiroyuki Motozuka (Panasonic)

* 1. CIDs 1154, 1158 and 1344 discussions: No discussions.

## 11-21/0054r0,Renaming NGV, Bahar Sadeghi (Intel)

* 1. A candidate new name “EVC” is proposed to replace “NGV” to address several comments collected from the LB251. A comment was made that “Enhanced” has the same issue as “Next Generation” since future technology will be enhanced on top of “Enhanced”. Besides changing the PAR needs WG to approve it this month, PAR modification by Feb 2nd, and submitted to NesCom by March 18th. More comments were made by a few members that NGV name does not need to be changed since it is known within the group, and “EVC” does not capture the essence of 11bd technology.
	2. SP #1: Do you support keeping the name “NGV” and rejecting the comments proposing to change the name to a phrase that does not include “next generation”?

SP results: 19Y/0N/2A

## 11-21/0020r0, the comment resolutions for CID 1527, 1800 and 1801, Dongguk Lim (LGE)

* 1. CID 1527, 1800 and 1801: No discussion. Only editorial changes are made in r1.

## 11-21/0021r0, the comment resolutions to 32.3.8.2.1, Dongguk Lim (LGE)

* 1. CID 1772: No discussion.

## 11-21/0022r2, the comment resolutions to 32.3.8.2.2, Dongguk Lim (LGE)

* 1. CID 1080, 1113, 1114, 1115, 1538, 1578, 1774, 1776, 1083, and 1817: No discussion.

## 11-21/0023r1, the comment resolutions to 32.3.8.2.3, Dongguk Lim (LGE)

* 1. CID 1081, 1775 and 1777 discussions: no discussion.

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on Jan. 19 at 9:00 am ET
	3. Chair adjourned the teleconference at 13:14 am ET