IEEE P802.11
Wireless LANs

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| IEEE 802.11bd May-June 2021 TC meeting minutes  |
| Date: 2021-05-25 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
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Abstract

This document includes minutes of all IEEE 802.11bd teleconferences on May 25th and June 8th.

Version Tracking:

R0: May 25th and 8th teleconference meetings minutes

# Tuesday 25 May 2021 @ 10:00-12:00 am ET

## Opening (IEEE 802.11-21/0597r5)

* 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 14-17)
	8. Chair introduced the task group leadership (slide 36)

## Agenda (IEEE 802. 11-21/0597r5)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/21/11-21-0597-05-00bd-tgbd-teleconference-agenda-for-apr-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)
		+ Editor report and update, Bahar Sadeghi (Intel)
		+ SPs
			- SP for 11-21/0171r6, Resolutions Clause 31.2.3 comments for LB-251, Joseph Levy (InterDigital)
			- SP for 11-21/0442r4, D1.0 comment resolution subclause 9.2.4.7.1, Liwen Chu (NXP) (CID 1401)
			- SP for 11-21/0697r3, D1.0 comment resolution subclause 5.4, Liwen Chu (NXP) (CID 1213, 1371 and 1490)
			- SP for 11-21/0431r4, D1.0 comment resolution subclause 31.2.5, Liwen Chu (NXP) (CID 1234 and 1440)
		+ Presentations and discussion (submission list)
			- 11-21/0429r3, D1.0 comment resolution subclause 10, Liwen Chu (NXP)
			- 11-21/0890r0, some comment resolutions for lb251, Joseph Levy (InterDigital)
			- 11-21/0872r0, 11bd D1.0 comment resolution 5.2.4 5.2.5, Liwen Chu (NXP)
		+ Next teleconference on June 1
		+ Adjourn
	2. Agenda was approved without objection

## Editor report and update, Bahar Sadeghi (Intel)

* 1. Bahar will complete D1.2 this week, and Robert Stacy will help next month. The group calls for candidates for Editor.

## SP for 11-21/0171r6, Resolutions Clause 31.2.3 comments for LB-251, Joseph Levy (InterDigital)

* 1. Do you agree on the comment resolution to the following 19 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0171r6?
		+ CID 1040, 1133, 1231,1282, 1426, 1427, 1429, 1430, 1495, 1496, 1497, 1498, 1499, 1565, 1603, 1626, 1752, 1759, and1760.
		+ Y/N/A, No objection

## SP for 11-21/0442r4, D1.0 comment resolution subclause 9.2.4.7.1, Liwen Chu (NXP) (CID 1401)

* 1. Do you agree on the comment resolution to CID 1401 and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0442r4?
		+ Y/N/A, No objection

## SP for 11-21/0697r3, D1.0 comment resolution subclause 5.4, Liwen Chu (NXP) (CID 1213, 1371 and 1490)

* 1. Do you agree on the comment resolution to the following 3 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0697r3?
		+ CID 1213, 1371 and 1490.
		+ Y/N/A, No objection

## SP for 11-21/0431r4, D1.0 comment resolution subclause 31.2.5, Liwen Chu (NXP) (CID 1234 and 1440)

* 1. Do you agree on the comment resolution to the following 2 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0431r4?
		+ CID 1234 and 1440.
		+ Y/N/A, No objection

## 11-21/0429r3, D1.0 comment resolution subclause 10, Liwen Chu (NXP)

* 1. CID 1299: No discussion.
	2. CID 1253: A comment was made that the first sentence is not needed since BlockAck behavior is already described in other subclause.

## SP for 11-21/0429r4, D1.0 comment resolution subclause 10, Liwen Chu (NXP)

* 1. Do you agree on the comment resolution to the following 2 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0429r4?
		+ CID 1299 and 1253.
		+ Y/N/A, No objection

## 11-21/0890r0, some comment resolutions for lb251, Joseph Levy (InterDigital)

* 1. CID 1758, 1023, 1024, 1516: No discussion.
	2. CID 1196: A comment was made that 5.9GHz band is indeed an issue needed to be addressed. The commentor is ok that the group is rejecting it now to move forward. But we need to address it in the next round letter ballot.
	3. CID 1374: No discussion.

## SP for 11-21/0890r1, some comment resolutions for lb251, Joseph Levy (InterDigital)

* 1. Do you agree on the comment resolution to the following 6 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0890r1?
		+ CID 1023, 1024, 1196, 1374, 1516 and 1758
		+ Y/N/A, No objection

## 11-21/0872r0, 11bd D1.0 comment resolution 5.2.4 5.2.5, Liwen Chu (NXP)

* 1. CID 1203: A comment was made that the goal of TGbd and 1609 group is to define primitives for non-NGV besides new features. It will be cleaner to make the change in 802.11 instead of 1609. The CID is deferred.
	2. CID 1271, 1368, 1392: No discussion.
	3. CID 1551: An editorial change was suggested to change “allow” to “is used by”. A question was asked whether we need to send back the radio environment request vector if the transmission is successful. The presenter answered that there is no exchange of those parameters between PHY and MAC layers. It is the MAC layer sending the parameters to the upper layer, and those parameters can help the upper layer to decide the parameters for next transmissions. A follow-up question was asked why it is called radio environment request vector if MAC changes parameters other than the ones in the radio environment request vector. The presenter answered that those parameters have the option that the upper layer let MAC layer select the values for the parameters. Hence it is useful to send back the parameters to the upper layer. The commentor replied that it is not appropriate to name it as request vector, instead it is a report. The presenter answered that there is another status report vector which includes additional parameters. It will be repetitive to define another vector to include the same parameters. Another commentor said that it will be even more confusing if we define another vector with the same parameters as the request vector.

## SP for 11-21/0872r1, 11bd D1.0 comment resolution 5.2.4 5.2.5, Liwen Chu (NXP)

* 1. Do you agree on the comment resolution to the following 4 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0872r1?
		+ CID 1271, 1368, 1392 and 1551
		+ 10Y/1N/2A

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on June 1st at 10:00 am ET
	3. Chair adjourned the teleconference at 11:59 am ET

**Attendance from IMAT**

| **Name** | **Affiliation** |
| --- | --- |
| An, Song-Haur | INDEPENDENT |
| Kim, Youn-Kwan | Sync Techno |
| Moran, Ashley | IEEE Standards Association (IEEE-SA) |
| Sun, Bo | ZTE Corporation |
| Oyama, Satoshi | Association of Radio Industries and Businesses (ARIB) |
| Kenney, John | TOYOTA infoTechnology Center U.S.A |
| Levy, Joseph | InterDigial, Inc. |
| Rosdahl, Jon | Qualcomm Technologies, Inc |
| Yan, Zhang | NXP Semiconductors |
| Roy, Richard | Self Employed |
| Sand, Stephan | DLR |
| Sosack, Robert | Molex Incorporated |
| Liwen, Chu | NXP Semiconductors |
| Motozuka, Hiroyuki | Panasonic Corporation |
| Petrick, Albert | InterDigial, Inc. |

# Tuesday 8 June 2021 @ 10:00-12:00 am ET

## Opening (IEEE 802.11-21/0904r1)

* 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 14-17)
	8. Chair introduced the task group leadership (slide 18)

## Agenda (IEEE 802. 11-21/0904r1)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/21/11-21-0904-01-00bd-tgbd-teleconference-agenda-for-jun-2021.pptx. (slide 19):
		+ 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 19)
		+ Call for tech editor candidate
		+ Presentations and discussion (submission list)
			- 11-21/0890r3 some comment resolutions for lb251, Joseph Levy (InterDigital)
			- 11-21/0872r2, 11bd d1.0 comment resolution 5-2-4-5-2-5, Liwen Chu (NXP)
			- 11-21/0439r3, 11bd d1.0 comment resolution 31.2.1, Liwen Chu (NXP)
			- 11-21/0903r0, D1.0 comment resolution of miscellaneous CIDs, Liwen Chu (NXP)
		+ Tech motions (motions for CRs since May interim week and generating D2.0)
		+ Discussion of liaison from ITU-T FG-VM (11-21/0711)
		+ Next teleconference on June 15
		+ Adjourn
	2. Agenda was approved without objection

## 11-21/0890r3 some comment resolutions for lb251, Joseph Levy (InterDigital)

* 1. CID 1168, 1278: No discussion

## SP for 11-21/0890r3 some comment resolutions for lb251, Joseph Levy (InterDigital)

* 1. Do you agree on the comment resolution to following 2 CIDs as in 11-21/0890r3?
		+ CID 1168 and 1278
		+ Y/N/A, No objection

## 11-21/0872r2, 11bd d1.0 comment resolution 5-2-4-5-2-5, Liwen Chu (NXP)

* 1. CID 1203: No discussion.

## SP 11-21/0872r2, 11bd d1.0 comment resolution 5-2-4-5-2-5, Liwen Chu (NXP)

* 1. Do you agree on the comment resolution to CID 1203 and and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0872r2?
		+ Y/N/A, No objection

## 11-21/0439r3, 11bd d1.0 comment resolution 31.2.1, Liwen Chu (NXP)

* 1. CID 1167: A comment was made that sensitivity use in the secondary channel is also an important aspect of fairness. The presenter answered that this feature is mentioned in the 20MHz channel related texts, and it may not need to put it here. The chair recommended the commentor raise the concern in the next LB circulation.
	2. CID 1417, 1485: No discussion.

## SP 11-21/0439r3, 11bd d1.0 comment resolution 31.2.1, Liwen Chu (NXP)

* 1. Do you agree on the comment resolution to the following 3 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0439r3?
		+ CID 1213, 1371 and 1490.
		+ Y/N/A, No objection

## 11-21/0903r0, D1.0 comment resolution of miscellaneous CIDs, Liwen Chu (NXP)

* 1. CID 1018: No discussion.
	2. CID 1222, 1493: A member posted some links <https://itsa.org/wp-content/uploads/2021/06/5.9-GHz-Petition-for-Review-Exhibit.pdf>, <https://itsa.org/wp-content/uploads/2021/06/5.9-GHz-Notice-of-Appeal-Exhibit.pdf> and <https://www.traffictechnologytoday.com/news/connected-vehicles-infrastructure/its-america-and-aashto-take-legal-action-to-preserve-5-9ghz-spectrum-for-v2x.html> which show legal actions over 5.9GHz band usage for V2X after FCC ruling.

## SP 11-21/0903r1, D1.0 comment resolution of miscellaneous CIDs, Liwen Chu (NXP)

* 1. Do you agree on the comment resolution to the following 3 CIDs and proposed spec text modification to IEEE P802.11bd D1.0 as in 11-21/0903r1?
		+ CID 1018, 1222 and 1493.
		+ Y/N/A, No objection

## Motion #1 (approval of Comment Resolutions)

* 1. Move to approve the following comment resolutions (additional CRs may be added):
* 11-21/0171r6: CID 1040, 1133, 1231,1282, 1426, 1427, 1429, 1430, 1495, 1496, 1497, 1498, 1499, 1565, 1603, 1626, 1752, 1759, and 1760 (19 CIDs)
* 11-21/0442r4: CID 1401
* 11-21/0697r3: CID 1213, 1371 and 1490
* 11-21/0431r4: CID 1234 and 1440
* 11-21/0429r4: CID 1229 and 1253
* 11-21/0890r1: CID 1023, 1024, 1196, 1374, 1516, and 1758
* 11-21/0872r2: CID 1271, 1368, 1392, and 1551

Moved: Joseph Levy Seconded: Liwen Chu

Result: 12Y/0N/0A

## Motion #2 (approval of generation of D2.0 and recirculation)

Having approved comment resolutions for all of the comments received from LB 251 on P802.11bd D1.0 as contained in document https://mentor.ieee.org/802.11/dcn/20/11-20-1887-09-00bd-tgbd-lb251-comments.xlsx  (to be updated),

Instruct the TGbd editor to create P802.11bd D2.0 and approve a motion request during July plenary meeting to WG11 for approval of a 20 day Working Group Recirculation Ballot asking the question “Should P802.11bd D2.0 be forwarded to SA Ballot?”

TGbd vote: Moved: Rui Cao,  Seconded: Stephan Sand

Result: 12y-0n-0a

## Discussion of liaison from ITU-T FG-VM (11-21/0711)

* 1. Chair shared document liaison statement from ITU-T FG-VM regarding FG-VM status and technical report. Chair encouraged members to read ITU-T FG-VM technical report, and check whether we need to respond to the liaison statement, and any proposals are welcome.

## Closing

* 1. Any other business
		+ None
	2. Chair announced the next TGbd teleconference will be on June 15th at 10:00 am ET
	3. Chair adjourned the teleconference at 11:25 am ET

**Attendance from IMAT**

| **Name** | **Affiliation** |
| --- | --- |
| An, Song-Haur | INDEPENDENT |
| Cao, Rui | NXP Semiconductor |
| Bahn, Christy | IEEE Standards Association (IEEE-SA) |
| Sun, Bo | ZTE Corporation |
| Kain, Carl | USDoT |
| Oyama, Satoshi | Association of Radio Industries and Businesses (ARIB) |
| Kenney, John | TOYOTA infoTechnology Center U.S.A |
| Levy, Joseph | InterDigial, Inc. |
| Noh, yujin | Newracom Inc. |
| Yan, Zhang | NXP Semiconductors |
| Lopez, Miguel | Ericsson AB |
| Sand, Stephan | DLR |
| Sosack, Robert | Molex Incorporated |
| Liwen, Chu | NXP Semiconductors |
| Motozuka, Hiroyuki | Panasonic Corporation |
| Petrick, Albert | InterDigial, Inc. |