IEEE P802.11  
Wireless LANs

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| IEEE 802.11bd July-August 2022 TC meeting minutes | | | | |
| Date: 2022-7-26 | | | | |
| Author(s): | | | | |
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Abstract

This document includes minutes of IEEE 802.11bd July-August 2022 teleconference meetings.

Version Tracking:

R0: July 26th and August 9th teleconference meetings minutes.

# Tuesday 26 July 2022 @ 10:00 am -12:00 pm ET

## Opening (IEEE 802.11-22/1191r1)

* 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 2-8).
  4. No response to the call for patents.
  5. Chair introduced IEEE-SA COPYRIGHT POLICY (slides 9-11)
  6. Chair reviewed other Guidelines for IEEE WG Meetings (slides 12-14)
  7. Chair reviewed current Teleconference plan, TGbd Documents Update, and current TGbd Timeline (slides 15-17)
  8. Chair reviewed submission List and 2nd SA Ballot Comment Assignment and Resolution Progress (slides 18-19)
  9. Chair introduced the task group leadership (slide 20)

## Agenda (IEEE 802. 11-22/1191r1)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/22/11-22-1191-01-00bd-tgbd-tc-agenda-for-jul-aug-2022.pptx. (slide 21)
     + 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 21)
     + Comment review and resolution discussion
       - 11-22/1065r2, TGbd D5.0 CR related to MIB variable definition and misc, Hiroyuki Motozuka (Panasonic)
       - 11-22/1116r1, 11bd D5.0 Comment Resolution, Liwen Chu (NXP)
       - 11-22/1193r0, 11bd SA2 PHY Comment Resolutions, Rui Cao (NXP)
       - 11-22/1198r0, Comment resolutions for SA2 CIDs 6000 and 6028, Joseph Levy (InterDigital)
     + Any other business
     + Adjourn
  2. Agenda was approved without objection

## 11-22/1065r2, TGbd D5.0 CR related to MIB variable definition and misc, Hiroyuki Motozuka (Panasonic)

* 1. CID 6062, 6027: Resolution is updated from Rejected to Revised. No Discussions.

## 11-22/1116r1, 11bd D5.0 Comment Resolution, Liwen Chu (NXP)

* 1. CID 6035: A comment was made that the commentor’s suggest change is correct. The presenter changed the resolution from Rejected to Accepted.
  2. CID 6024: A comment was made for two editorial changes.
  3. CID 6025, 6032: No discussion
  4. CID 6031: A question was asked whether it is dynamic, the presenter answered no since CBW is 20.
  5. CID 6030: A comment was made to change upper layer to higher layer to be consistent with rest of the spec. A question was asked whether higher layer can select the parameter or set the parameter. The presenter changed the revised text from “can select” to “sets”.

## 11-22/1193r0, 11bd SA2 PHY Comment Resolutions, Rui Cao (NXP)

* 1. CID 6003: A comment was made by the Editor whether the location is before 32.3.9 or before 32.3.10. The presenter answered that it should before 32.2.10. A comment was made it is better to say “SU-MIMO PPDU may be transmitted by transmitter with more than one antenna”. The presenter changed resolution accordingly. A question was asked how the transmitter know the NGV STA can receive SU-MIMO PPDU in range. The presenter answered that it is through higher layer and the text is in MAC. This subclause may not be needed since there is already NOTE provided the similar texts. A comment was made that the added subclause may be more reader friendly. It is suggested to add reference of steering matrix definition and operation requirement in MAC without adding too much details.
  2. CID 6011: A question was asked whether CH\_BANDWIDTH is dynamic. The presenter answered that CH\_BANDWIDTH is passed from MAC in TXVECTOR, hence it is dynamic.
  3. CID 6013, 6010, 6014: No discussions.

## 11-22/1198r0, Comment resolutions for SA2 CIDs 6000 and 6028, Joseph Levy (InterDigital)

* 1. CID 6000: No discussions.
  2. CID 6028: A question was asked whether we should replace MLME with the newly added MLME-CANCELTX. After discussions, it is unchanged. A editorial change is suggested and accepted.

## Closing

* 1. Chair adjourned the teleconference at 12:00pm ET.
  2. Next TC will be on August 9th

**Attendance from IMAT**

| **Name** | **Affiliation** |
| --- | --- |
| Rui, Cao | NXP Semiconductors |
| Chu, Liwen | NXP Semiconductors |
| Zama, Malia | IEEE-SA |
| Sun, Bo | ZTE Corporation |
| Noh, Yujin | Senscomm |
| Yan, Zhang | NXP Semiconductors |
| Levy, Joseph | InterDigital, Inc. |
| Motozuka, Hiroyuki | Panasonic Corporation |
| Sand Stephan | German Aerospace Center (DLR) |
| Oyama, Satoshi | ARIB |
| Sosack, Robert | Molex Incorporated |
| Kenney, John | Toyota Motor North America |

# Tuesday 9 Aug 2022 @ 10:00 am -12:00 pm ET

## Opening (IEEE 802.11-22/1191r1)

* 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 2-8).
  4. No response to the call for patents.
  5. Chair introduced IEEE-SA COPYRIGHT POLICY (slides 9-11)
  6. Chair reviewed other Guidelines for IEEE WG Meetings (slides 12-14)
  7. Chair reviewed current Teleconference plan, TGbd Documents Update, and current TGbd Timeline (slides 15-17)
  8. Chair reviewed submission List and 2nd SA Ballot Comment Assignment and Resolution Progress (slides 18-19)
  9. Chair introduced the task group leadership (slide 22)

## Agenda (IEEE 802. 11-22/1191r1)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/22/11-22-1191-01-00bd-tgbd-tc-agenda-for-jul-aug-2022.pptx. (slide 23)
     + 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 23)
     + Comment review and resolution discussion
       - 11-22/1193r1, 11bd SA2 PHY Comment Resolutions, Rui Cao (NXP)
     + Motion to approve CRC CRs
     + Any other business
     + Adjourn
  2. Agenda was approved without objection

## 11-22/1193r0, 11bd SA2 PHY Comment Resolutions, Rui Cao (NXP)

* 1. CID 6013: An update of the resolution related to Annex P was provided. A comment was made that indx should be index in the CR. A comment was made that it is mandatory for 20MHz NGV STA to support NGV-MCS 0-9, 15 with Nss = 1. The presenter showed that 20MHz NGV support is optional. A comment was made that whether this feature is conditionally mandatory if NGV STA supports 20MHz transmit/receive. The status of this feature is changed to NGVP1.2:M. It is suggested to split 10MHz operation in the 5.9GHz into two entries, one for 1SS and one for 2SS.
  2. CID 6012: A comment was made that “the analysis below” should be replaced by “the analysis in doc 11-22/1193r2” in the reject reason. A comment was made that the reject reason can be concise, and move the details to the discussion part. A comment was made to include URL link to the referenced document.
  3. CID 6003: A question was asked how receiver knows that transmitter is equipped with more than one antenna. The presenter answered that that information depends on higher layer capabilities, e.g, MCS/Nss info from higher layer radio environment request vector. This is described in Clause 31.5.

## Motion #1 (CRC CR motion)

* 1. Move to approve the resolutions to following 41 comments collected from the 2nd SA Ballot for IEEE P802.11bd D5.0:

CID 6034 and 6037, as in 11-22/1013r1

CID 6001, 6002, 6008, 6007, 6020, 6039, 6006, 6036, 6019, 6005, 6018, 6021, 6023, 6017, 6040, 6004, 6022, 6015, 6009, 6029, and 6016, as in 11-22/0986r0

CID 6026, 6027, 6033, and 6038, as in 11-22/1065r2

CID 6035, 6024, 6025, 6031, 6032, and 6030, as in 11-22/1116r2

CID 6000 and 6028, as in 11-22/1198r1

CID 6003, 6010, 6011, 6012, 6013, and 6014, as in 11-22/1193r1

Moved: Joseph Levy Seconded: Stephan Sand

Result: Motioned passed unanimously

## Motion #2 (CRC CR motion)

* 1. Having approved comment resolutions for all of the comments received from the SA Recirculation Ballot for IEEE P802.11bd D5.0 as contained in document   
     <https://mentor.ieee.org/802.11/dcn/22/11-22-0983-03-00bd-tgbd-sa2-comments.xlsx>,instruct the TGbd editor to incorporate all approved comment resolutions to create IEEE P802.11bd D6.0 and approve a 15-day SA Recirculation Ballot for IEEE P802.11bd D6.0

Moved: Rui Cao Seconded: Joseph Levy

Result: 10Y/0N/0A

## Closing

* 1. Chair adjourned the teleconference at 12:00pm ET.
  2. Next TC will be on September 6th

**Attendance from IMAT**

| **Name** | **Affiliation** |
| --- | --- |
| An, Song-Haur | Independent |
| Kain, Carl | USDoT |
| Rui, Cao | NXP Semiconductors |
| Bahn, Christy | IEEE-SA |
| Sun, Bo | ZTE Corporation |
| Noh, Yujin | Senscomm |
| Yan, Zhang | NXP Semiconductors |
| Levy, Joseph | InterDigital, Inc. |
| Petrick, Albert | InterDigital, Inc |
| Motozuka, Hiroyuki | Panasonic Corporation |
| Sand Stephan | German Aerospace Center (DLR) |
| Oyama, Satoshi | ARIB |
| Sosack, Robert | Molex Incorporated |
| Stanley, Dorothy | Hewlett Packard Enterprise |
| Rosdahl, Jon | Qualcomm Technologies, Inc. |