IEEE P802.11  
Wireless LANs

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| IEEE 802.11bd Jan 2022 Interim meeting minutes | | | | |
| Date: 2021-1-18 | | | | |
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Abstract

This document includes minutes of IEEE 802.11bd January 2022 Interim meetings.

Version Tracking:

R0: January 2022 Interim TG meetings minutes

# Tuesday 18 January 2022 @ 9:00-11:00 am ET

## Opening (IEEE 802.11-21/2000r1)

* 1. Call to order 9:00 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 15-18)
  8. Chair introduced the task group leadership (slide 20)

## Agenda (IEEE 802. 11-21/2000r1)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/21/11-21-2000-01-00bd-tgbd-teleconference-agenda-for-Jan-2022. (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)
     + Approval of TG minutes
     + Tech Editor report
     + CR SP
       - 11-22/0007r3, LB259 Comment Resolution, Stephan Sand (DLR)
       - 11-22/0015r2, Resolutions to Editorial Comments Part 1, Yujin Noh (Senscomm)
     + Comment resolutions
       - 11-22/0033r2, D3.0 Comment Resolution Annex C MIB, Hiroyuki Motozuka (Panasonic)
       - 11-22/0007r3, LB259 Comment Resolution, Stephan Sand (DLR)
       - 11-22/0007r3, LB259 Comment Resolution, Stephan Sand (DLR)
       - 11-22/0016r1, Resolutions to Editorial Comments Part 2, Yujin Noh (Senscomm)
       - 11-22/0017r0, Resolutions to Annex C, Yujin Noh (Senscomm)
       - 11-22/0018r0, Resolutions to NGV PHY introduction to Mathematical description of signals, Yujin Noh (Senscomm)
     + Any other business?
     + Recess
  2. Agenda was approved without objection

## Approval of minutes

* 1. Move to approve the following minute for TGbd teleconferences during IEEE 802.11 Nov Plenary meeting week and following teleconferences:

[https://mentor.ieee.org/802.11/dcn/21/11-21-1863-00-00bd-tgbd-november-plenary-2021-teleconference-minutes.doc](https://mentor.ieee.org/802.11/dcn/21/11-21-1863-00-00bd-tgbd-november-plenary-2021-teleconference-minutes.docx)x

[https://mentor.ieee.org/802.11/dcn/22/11-22-0055-00-00bd-ieee-802-11bd-dec-2021-jan-2022-meeting-minutes.docx](https://eur01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmentor.ieee.org%2F802.11%2Fdcn%2F22%2F11-22-0055-00-00bd-ieee-802-11bd-dec-2021-jan-2022-meeting-minutes.docx&data=04%7C01%7Cyan.zhang_5%40nxp.com%7Ca6bfb56cd4b940244e4408d9da35106f%7C686ea1d3bc2b4c6fa92cd99c5c301635%7C0%7C1%7C637780743725205405%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=WAqDpGPxLw%2FGhK%2Fj1nICuPy7c2IRRMviyotQwKr82Xk%3D&reserved=0).

Moved: Yan Zhang Seconded: Stephan Sand

Results: Approved unanimously

## Tech Editor Report

* 1. 5 CIDs are ready to motion. TGbd is changed to Amendment 5 at yesterday’s Editor’s meeting. A question was asked if our baseline is document 802-2020 or 11me. Editor answered that she prefers to using document 802-2020 since 11me is developed after 11bd. She further stated that she will fix the references where 11ax or 11be is used as baseline.

## SP for 11-22/0007r3, LB259 Comment Resolution, Stephan Sand (DLR)

* 1. Do you agree on the comment resolution to following 10 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0007r3?
     + CID 3001, 3012, 3017, 3018, 3052, 3061, 3063, 3064, 3077 and 3103.
     + Y/N/A: No objections.

## SP for 11-22/0015r2, Resolutions to Editorial Comments Part 1, Yujin Noh (Senscomm)

* 1. CID 3043: updated based on yesterday Editor’s meeting. 11bd Amendment number is changed to No. 5 from No. 6. Hence the CID resolution is changed to “rejected”.
  2. Do you agree on the comment resolution to following 11 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0015r2?
     + CID 3079, 3042, 3043, 3004, 3005, 3007, 3006, 3073, 3074, 3078, 3045
     + Y/N/A: No objections.

## 11-22/0033r2, D3.0 Comment Resolution Annex C MIB, Hiroyuki Motozuka (Panasonic)

* 1. The presenter updated resolution of CID 3047, i.e., incorporated the proposed changes in MDR report (21/0021r5) that is not conflicted with CID 3047 resolution. SP will be run later this week after other members check the resolution.

## 11-22/0007r3, LB259 Comment Resolution, Stephan Sand (DLR)

* 1. CID 3002: A comment was made that he has concern on the title “VHT/HE Ranging NDP Announcement frame format” that readers may not realize that this is related to 11bd NGV ranging. The presenter answered that the contents in the paragraph includes sentence dot11NGV is activated. Another concern of the commentor is that the wording “in all other cases” is ambiguous. The presenter answered that it means in all other cases except TB ranging with secure LTF. A comment was made that there is 5 types NDPA frames, we have to reuse one type since NDPA frame type indication uses 2 bits sounding token. The commentor wants to confirm which type we are reusing. The presenter answered that we are reusing type “Ranging NDPA” with field value “01”. A question was asked if “CBW10” is correct. The presenter answered yes. He explained that the 11az ranging NDP only applies to 20MHz channel, hence he added wording for 10MHz channel for 11bd. A comment was made that most of the changes are made in clause 9. The commentor thinks we should have clear texts put in 11bd document for the benefits of 11bd readers, e.g. what value should be set for the ranging NDPA parameters in 11bd. The presenter agreed to modify accordingly and circulate the resolution later. Editor commented that some of the text in clause 9 will be moved to clause 31, and she agrees with the previous commentor. A comment was made that NGV ranging may not the best for the real use case scenarios. The presenter answered that non-TB ranging is used in unicast scenario, and it is done in a very short TXOP.
  2. CID 3051: removed NGV NPDA sentence based on resolution of CID 3002.

## 11-22/0016r1, Resolutions to Editorial Comments Part 2, Yujin Noh (Senscomm)

* 1. CID 3056: A comment was made that reference 11.21.6.1.1 does not cover non-TB ranging since it is covered in 11.21.6.2. The presenter will update accordingly.
  2. CID 3008, 3026, 3050, 3013, 3024, 3025, 3095: No discussions.

## 11-22/0017r1, Resolutions to Annex C, Yujin Noh (Senscomm)

* 1. CID 3023, 3021, 3022, 3046: No discussions.

## 11-22/0018r1, Resolutions to NGV PHY introduction to Mathematical description of signals, Yujin Noh (Senscomm)

* 1. CID 3028, 3029, 3091, 3092, 3030, 3031: No discussions.

## Closing

* 1. Chair adjourned the teleconference at 11:00 am ET.
  2. Next TC will be on January 19th.

# Wednesday 19 January 2022 @ 11:15am - 13:15 pm ET

## Opening (IEEE 802.11-21/2000r2)

* 1. Call to order 11:15am 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 15-18)
  8. Chair introduced the task group leadership (slide 25)

## Agenda (IEEE 802. 11-21/2000r2)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/21/11-21-2000-02-00bd-tgbd-teleconference-agenda-for-Jan-2022. (slide 26)
     + 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 26)
     + CR SP
       - 11-22/0016r2, Resolutions to Editorial Comments Part 2, Yujin Noh (Senscomm)
       - 11-22/0017r1, Resolutions to Annex C, Yujin Noh (Senscomm)
     + Comment resolutions
       - 11-22/0018r1, Resolutions to NGV PHY introduction to Mathematical description of signals, Yujin Noh (Senscomm)
       - 11-22/0019r1, Resolutions to NGV preamble and NGV receive procedure, Yujin Noh (Senscomm)
       - 11-22/0112r0, some-clause-3-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)
       - 11-22/0047r0, D3.0 comment resolution 31.1, Liwen Chu (NXP)
       - 11-22/0048r0, D3.0 comment resolution 5.3.2, Liwen Chu (NXP)
       - 11-22/0091r0, D3.0 Comment Resolution related to DMG STA communicating OCB, Hiroyuki Motozuka (Panasonic)
       - 11-22/0111r0, some-clause-5/6-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)
     + Any other business?
     + Recess
  2. Agenda was approved without objection

## SP for 11-22/0016r2, Resolutions to Editorial Comments Part 2, Yujin Noh (Senscomm)

* 1. Do you agree on the comment resolution to following 15 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0016r2?
     + CID 3003, 3104, 3072, 3075, 3055, 3056, 3008, 3026, 3049, 3050, 3013, 3024, 3025, 3086 and 3095.
  2. Y/N/A: No objections.

## SP for 11-22/0017r1, Resolutions to Annex C, Yujin Noh (Senscomm)

* 1. Do you agree on the comment resolution to following 4 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0017r1?
     + CID 3023, 3021, 3022 and 3046.
  2. Y/N/A: No objections.

## 11-22/0018r1, Resolutions to NGV PHY introduction to Mathematical description of signals, Yujin Noh (Senscomm)

* 1. CID 3093, 3094: A comment was made that single stream figure is for mandatory feature while two streams figure is for optional feature. The commentor asked if it makes readers think we always support two streams if we have this combined figure for general purpose. The presenter answered that we can add texts to describe the mandatory and optional features around the figure to make it clear. The general figure is adopted in other Amendments as well such as 11ac. Another comment was made that this figure is for transmit block, which does not infer multiple streams is mandatory, and there are texts describing mandatory and optional PHY feature before. The best option is adding related texts around the figure.
  2. CID 3032: No discussions.
  3. CID 3033: A question was asked if LTF\_REP was defined in TXVECTOR table. It is confirmed that LTF\_REP is listed in TXVECTOR table, and it is not needed to add it in Frequently used parameters table.
  4. CID 33034, 3035: No discussions.
  5. CID 3036: A comment was made that it is better to check if there are other places need to be replaced with NGV-MCS0 and NGV-MCS15 in the spec.

## 11-22/0019r1, Resolutions to NGV preamble and NGV receive procedure, Yujin Noh (Senscomm)

* 1. CID 3101, 3000, 3059, 3038: No discussions.
  2. CID 3102: A comment was made that “of” is missing after columns.
  3. CID 3037: A question was asked whether the deleted sentence is already stated before. It is confirmed that this sentence is wrong reference and should be deleted as in the resolution.
  4. CID 3096: A question was asked if NGV-LTF-2x-Repeat is only applied to 10MHz. If NGV-LTF-2x-Repeat is applied to BPSK-DCM and BPSK-DCM is also applied to 20MHz, does it imply we can use NGV-LTF-2x-Repeat in 20MHz. It is answered that NGV-LTF-2x-Repeat is only applied to 10MHz. It is commented that we need clear texts to state that NGV-LTF-2x-Repeat is only applied to 10MHz. The presenter answered that it is covered in another CID.
  5. CID 3100: A comment was made that “Otherwise” should be “otherwise”.
  6. CID 3097, 3039, 3098, 3040, 3099, 3041: No discussions.

## 11-22/0112r0, some-clause-3-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)

* 1. CID 3054: No discussions.
  2. CID 3060: A comment was made that 20MHz channel is an optional feature. But dynamic bandwidth operation in this context seems mandatory which is confusing. So it is better to add some texts to clarify it. The definition of dynamic bandwidth operation section has nothing to do with mandatory or optional feature. There are texts in spec main body stating that dynamic bandwidth operation is an optional feature for 20MHz channel operation. So the rejection of this CID is correct.

## 11-22/0047r0, D3.0 comment resolution 31.1, Liwen Chu (NXP)

* 1. CID 3085: A comment was made that whether all MAC features in clause 10 will be implemented when dot11OCBActiviated is true, and whether all OCB features are included in clause 10. The presenter confirmed that all MAC features will be implemented since NGV STA is also a 11p STA.

## 11-22/0048r0, D3.0 comment resolution 5.3.2, Liwen Chu (NXP)

* 1. CID 3009: A question was asked whether it is data rate/NGV-MCS or data rate/MCS in the sentence. The presenter answered that it is NGV-MCS for NGV PPDU, and data rate for non-NGV PPDU.
  2. CID 3010: Editor asked the presenter to check whether P4L6 frequency band is different than channel in the spec. The presenter answered that only frequency band needs to be replaced. Another comment was made that only “frequency band member” should be replaced with “channel member”. The presenter agrees with it and changed the resolution accordingly.
  3. CID 3057, 3058: No discussions.
  4. CID 3065: A comment was made that there is not much information how MAC selects MCS in clause 10.6. It is ok to reject it now. The commentor will do offline discussions with the presenter.

## Closing

* 1. Chair adjourned the teleconference at 13:15 pm ET.
  2. Next TC will be on January 20th.

# Thursday 20 January 2022 @ 7-9pm ET

## Opening (IEEE 802.11-21/2000r3)

* 1. Call to order 7pm 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 15-18)
  8. Chair introduced the task group leadership (slide 29)

## Agenda (IEEE 802. 11-21/2000r3)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/21/11-21-2000-03-00bd-tgbd-teleconference-agenda-for-Jan-2022. (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)
     + CR SP
       - 11-22/0018r3, Resolutions to NGV PHY introduction to Mathematical description of signals, Yujin Noh (Senscomm)
       - 11-22/0019r2, Resolutions to NGV preamble and NGV receive procedure, Yujin Noh (Senscomm)
       - 11-22/0112r0, some-clause-3-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)
       - 11-22/0047r0, D3.0 comment resolution 31.1, Liwen Chu (NXP)
       - 11-22/0048r1, D3.0 comment resolution 5.3.2, Liwen Chu (NXP)
     + Comment resolutions
       - 11-22/0111r0, some-clause-5/6-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)
       - 11-22/0091r0, D3.0 Comment Resolution related to DMG STA communicating OCB, Hiroyuki Motozuka (Panasonic)
     + Any other business?
     + Recess
  2. Agenda was approved without objection

## SP for 11-22/0018r3, Resolutions to NGV PHY introduction to Mathematical description of signals, Yujin Noh (Senscomm)

* 1. Do you agree on the comment resolution to following 13 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0018r2?
     + CID 3028, 3029, 3091, 3092, 3030, 3031, 3093, 3094, 3032, 3033, 3034, 3035 and 3036.
     + Y/N/A: No objections.

## SP for 11-22/0019r2, Resolutions to NGV preamble and NGV receive procedure, Yujin Noh (Senscomm)

* 1. Do you agree on the comment resolution to following 14 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0019r2?
     + CID 3101, 3102, 3000, 3059, 3037, 3038, 3096, 3097, 3039, 3098, 3040, 3099, 3041, and 3100.
     + Y/N/A: No objections.

## SP for 11-22/0112r0, some-clause-3-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)

* 1. Do you agree on the comment resolution to following 2 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0112r0?
     + CID 3054 and 3060.
     + Y/N/A: No objections.

## SP for 11-22/0047r0, D3.0 comment resolution 31.1, Liwen Chu (NXP)

* 1. Do you agree on the comment resolution to CID 3085 and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0047r0?
     + Y/N/A: No objections.

## SP for 11-22/0048r1, D3.0 comment resolution 5.3.2, Liwen Chu (NXP)

* 1. Do you agree on the comment resolution to following 5 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0048r1?
     + CID 2139, 2140, 2141, 2249 and 2251.
     + Y/N/A: No objections.

## 11-22/0111r0, some-clause-5/6-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)

* 1. CID 3105: A comment was made that there is no IEEE Std 1609 standard in IEEE. It should be IEEE 1609 family of standards. The commentor suggested editorial changes from “radio environmental request vector facilitate” to “radio environment request vector to facilitate”.
  2. CID 3106: A comment was made that “each AC” implies all types of AC. Commentor suggest to change to “one or more ACs”. The presenter answers that it means one type AC and agree to change the wording to “an AC”. The commentor suggested to change “operating outside BSS” to “communicating outside BSS”. The presenter answered that 802.11 specs usually use “operating”. A commentor suggested to change “outside the context” to “OCB” since it is not first time to use the acronym. A comment was made that there are more occurrence of “communicating” than “operating” in 11bd spec. To be consistent, 11bd spec should use “operating” as it is preferred in 802.11 baseline document.
  3. CID 3011, 3015: A comment was made that “When 0” is not clear, it should change to “When equal to 0”. Another comment was made that valid range is “0-1000”, but the description part allowed values are 0 and 100-1000, which seems not the same. A question was asked value 1-99 are disallowed. If it is true, the valid range should be 0 or 100-1000. After changing valid range, the sentence of “Allowed value …” in description part is not needed, and should be deleted. A comment was made that it is not clear whether neighboring STAs include both non-NGV and NGV STAs in sentence “… measures the number of neighboring STAs and the number of neighboring NGV STAs … “. It is modified to “… measures the number of neighboring STAs (non-NGV STAs and NGV STAs) and the number of neighboring NGV STAs, and report these measurement results …” for clarification. A comment was made to change “upper layer” to “higher layer”. A further comment was made to change MIB variables to align with the valid values range. A comment was made that the corresponding MIB variables needed to be changed before this CID resolution can be straw polled.

## 11-22/0091r1, D3.0 Comment Resolution related to DMG STA communicating OCB, Hiroyuki Motozuka (Panasonic)

* 1. CID 3044, 3071, 3048, 3076, 3062, 3080, 3081, 3082: No discussions.

## Closing

* 1. Chair adjourned the teleconference at 9pm ET.
  2. Next TC will be on January 21st.

# Friday 21 January 2022 @ 9-11am ET

## Opening (IEEE 802.11-21/2000r4)

* 1. Call to order 9:00 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 15-18)
  8. Chair introduced the task group leadership (slide 36)

## Agenda (IEEE 802. 11-21/2000r4)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/21/11-21-2000-04-00bd-tgbd-teleconference-agenda-for-Jan-2022. (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)
     + CR SP
       - 11-22/0048r1, D3.0 comment resolution 5.3.2, Liwen Chu (NXP) [incorrect CID in previous SP]
       - 11-22/0033r2, D3.0 Comment Resolution Annex C MIB, Hiroyuki Motozuka (Panasonic)
       - 11-22/0007r7, lb259-comment-resolution, Stephan Sand (German Aerospace Center (DLR))
       - 11-22/0111r1, some-clause-5/6-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)
     + Comment resolutions
       - 11-22/0091r0, D3.0 Comment Resolution related to DMG STA communicating OCB, Hiroyuki Motozuka (Panasonic)
       - 11-22/0150r0, CID 3053 for Midambles, Rui Cao (NXP)
       - 11-22/0155r0, D3.0 Comment Resolution for PHY Introduction, Rui Cao (NXP)
     + CR motions
     + Editor report and MDR progress report
     + Revisit Timeline
     + Future teleconference plan
     + Any other business
     + Adjourn
  2. Agenda was approved without objection

## SP for 11-22/0048r1, D3.0 comment resolution 5.3.2, Liwen Chu (NXP)

* 1. Do you agree on the comment resolution to following 5 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0048r1?
     + CID 3009, 3010, 3057, 3058 and 3065.
     + Y/N/A: No objections.

## SP for 11-22/0033r2, D3.0 Comment Resolution Annex C MIB, Hiroyuki Motozuka (Panasonic)

* 1. Do you agree on the comment resolution to CID 3047 and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0033r2?
     + Y/N/A: No objections.

## SP for 11-22/0007r7, lb259-comment-resolution, Stephan Sand (German Aerospace Center (DLR))

* 1. An update was given for CID 3002 including moving NGV ranging text from clause 9 to clause 31.4.
  2. An update was given for CID 3051. A question was asked whether it is field or subfield after LTF offset in the ranging parameters element, which is missing. It is confirmed that it should be field based on 11az spec text.
  3. Do you agree on the comment resolution to following 2 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0007r7?
     + CID 3002 and 3051.
     + Y/N/A: No objections.

## SP for 11-22/0111r1, some-clause-5/6-comment-resolutions-for-lb-259, Joseph Levy (InterDigital)

* 1. An update is given for the MIB variables changes. A comment was made by the Editor that if the old deleted value can be also shown in the text.
  2. Do you agree on the comment resolution to following 4 CIDs and proposed modification to IEEE P802.11bd D3.0 as in 11-22/0111r1?
     + CID 3105, 3106, 3011 and 3015.
     + Y/N/A: No objections.

## 11-22/0091r1, D3.0 Comment Resolution related to DMG STA communicating OCB, Hiroyuki Motozuka (Panasonic)

* 1. CID 3083: A comment was made that it is should be ‘’antenna configurations” instead of ”directions” since “directions” is the results of different antenna configurations. The presenter changed resolution accordingly.
  2. CID 3084, 3014: A comment was made that more work needs to be done for this resolution.

## Motion #1 (approval of comment resolutions)

* 1. Move to approve the comment resolutions to 87 CIDs which marked as “ready to motion” as in 11-21/2018r4?
     + Moved: Yujin Noh Seconded: Stephan Sand
     + Results: Approved with unanimous consensus

## Editor report (11-19/2045r15) and MDR progress report (11-22/0021r5)

* 1. 87 out of 107 LB 259 comments are approved. There are 20 CIDs are left.
  2. Editor showed the issues in spec writing needs to improved based on MDR progress report: Style guide suggests to remove unnecessary capitalizations in Naming. Terminology regarding frame vs packet vs PPDU vs MPDU needs to be clear.

## Revisit Timeline

* 1. Current timeline is kept as it is.

## Future Teleconference Plan

* 1. Three meetings are scheduled in February and one in March.

## 11-22/0150r0, CID 3053 for Midambles, Rui Cao (NXP)

* 1. CID 3053: No discussion.

## 11-22/0155r0, D3.0 Comment Resolution for PHY Introduction, Rui Cao (NXP)

* 1. CID 3089, 3090: No discussions.

## Closing

* 1. Chair adjourned the teleconference at 10:55am ET.
  2. Next TC will be on Feb. 8th.