IEEE P802.11  
Wireless LANs

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| TGbk April 2023 Telecon Minutes | | | | |
| Date: 2023-04-30 | | | | |
| Author(s): | | | | |
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Abstract

This document contains TGbk April 2023 telecon minutes

### TGbk – April 4th, 2023

* 1. Called to order byTGbk Chair, Jonathan Segev (Intel Corporation) and Vice Chair Assaf Kasher (Qualcomm), at **10:00 PST,**
  2. Agenda Doc. [**IEEE 802.11-23/193r5**](https://mentor.ieee.org/802.11/dcn/23/11-23-0193-05-00bk-tgbk-march-meeting-agenda.pptx)
  3. Review Patent Policy and logistics

1.3.1 Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested

* + 1. Chair called for any potentially essential patents, no one stepped forward.
    2. Chair reminded participants to register their attendance using imat.
    3. Chair reviewed other guidelines for IEEE meetings,
    4. Chair reviewed IEEE antitrust and competition laws, copyright policy,
    5. Chair reviewed IEEE code of ethics and WG participation as an individual professional-no clarification requested
    6. Chair reviewed IEEE 802 ground rules and provided reference to IEEE Standards By-Laws
    7. Chair reminded members to log their attendance.
  1. Agenda
     1. Review technical submissions towards SFD and amendment text
     2. Agenda approved.
     3. Submission list for the telecon:
        1. 11-23-390 Proposed Draft text on NDP Announcement
        2. 11-23-40 Proposal on 320 MHz Ranging NDP (USIG)
  2. Yanjun presented: 11-23-390

1.5.1 Title: 11bk Spec text for NDP Announcement

* + 1. C: How should the audience differentiate between discussion text and spec-text?
    2. R: discussion text is highlighted and without track changes.
    3. C: remove section number from discussion text.
    4. R: agreed.
    5. C: typo in instruction to editor about baseline being “11bk 7.0” instead of 11az.
    6. R: change to 11az.
    7. C: track change is confusing with multiple colors even for new insertions.
    8. R: fixed.
    9. C: atypical not to allow PPDUs with BW lower than 320 MHz to be transmitted in EHT PPDU. Do we need to revisit this in next-gen ? Better to just state it as what PPDUs are allowed rather what are excluded.
    10. R: concern on adding many combinations.
    11. C: do other standard groups like 11be restrict which PPDUs are allowed to contain NDP-A ?
    12. R: Better not to mix 11be and 11bf. Not aware of any restrictions in 11be.
    13. C: Restricting lower than 320 MHz PPDUs to use PPDU format up to HE may be cleaner approach.
    14. C: prefer not to restrict it since even without this restriction, implementations would naturally not use non-typical PPDU formats.
    15. R: IEEE spec seems to have similar language about listing which PPDUs can not be used for a given frame.
    16. C: might be limiting to not allow future devices not use new formats.
    17. Chair recommends to take this discussion offline.
    18. C: Add a note service.
    19. C: is group fine with 320 MHz text stating which PPDUs to use ?
    20. No objection
    21. C: editorial change to remove a reference.
    22. R: accepted
    23. C: another comment on why list which PPDUs are excluded rather than list which ones are included . would it be issue when 1az is incorporated to REVme ? Need to add this sentence in 11be.
    24. R: 11be does not recognize Ranging NDP-A. need to discuss more offline.
    25. C: suggest to take a holistic approach and fix changes needed to 11az because of 11be.
    26. C: presented asked group if anyone objects to renaming “LTF Counter subfield” and “Secure LTF Parameters element”
    27. C: whats the plan for next call ? suggest only to go over the changes.
    28. R: will polish it down in offline discussion.

* 1. Steve presented 11-23-40r2:
     1. Title: **Proposal on 320 MHz Ranging NDP**
     2. C: reusing existing combinations is sufficient, add clarifications to the note in table
     3. C:.prefer to minimize spec change by reusing PPDU Type and compression mode = 1 for DL and 0 (EHT B) for UL
     4. C: since in UL we send both EHT MU and EHT TB PPDU, how do we set the bits for case of passive and regular TB Ranging sounding PPDU.
     5. R: have to think about it.
     6. R: wants to run a SP on non-controversial parts. Will craft offline. Will be ready for the call after next conf call
  2. AoB
  3. Adjourn
  4. Attendance:

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| Breakout | Timestamp | Name | Affiliation |
| TGbk | 4/4 | Berger, Christian | NXP Semiconductors |
| TGbk | 4/4 | feng, Shuling | MediaTek Inc. |
| TGbk | 4/4 | Grandhe, Niranjan | NXP Semiconductors |
| TGbk | 4/4 | Henry, Jerome | Cisco Systems, Inc. |
| TGbk | 4/4 | Kasher, Assaf | Qualcomm Incorporated |
| TGbk | 4/4 | Lee, Wookbong | Apple Inc. |
| TGbk | 4/4 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbk | 4/4 | Sand, Stephan | German Aerospace Center (DLR) |
| TGbk | 4/4 | Schweizer, Benedikt | Apple Inc. |
| TGbk | 4/4 | Segev, Jonathan | Intel; Intel Corporation |
| TGbk | 4/4 | Serizawa, Kazunobu | Advanced Telecommunications Research Institute International (ATR) |
| TGbk | 4/4 | Sosack, Robert | Molex Incorporated |
| TGbk | 4/4 | Sun, Yanjun | Qualcomm Incorporated |
| TGbk | 4/4 | Wei, Dong | NXP Semiconductors |

### 2. TGbk – April 18th, 2023

2.1 Called to order by TGbk Vice Chair Assaf Kasher (Qualcomm), at **10:00 PST.**

* 1. Agenda Doc. [**IEEE 802.11-23/193r6**](https://mentor.ieee.org/802.11/dcn/23/11-23-0193-06-00bk-tgbk-march-meeting-agenda.pptx)
  2. Review Patent Policy and logistics
     1. Chair reviewed meeting logistics and record attendance if one is present at the meeting

2.3.2 Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.

* + 1. Chair called for any potentially essential patents, no one stepped forward.
    2. Chair reviewed other guidelines for IEEE meetings,
    3. Chair reviewed IEEE Anti-trust and competition laws, copyright policy,

2.3.6 Chair reviewed IEEE code of ethics, code of conduct and WG participation as an individual professional-no clarification requested

* + 1. Chair reviewed IEEE 802 ground rules and provided reference to IEEE Standards by-laws
    2. Chair reminded participants to register their attendance using imat.
  1. Agenda
     1. Review technical submissions towards SFD and amendment text
     2. Agenda approved.
     3. Submission list for the telecon:
        1. 11-23-248 11-bk-tg-sft
        2. 11-23-390r2 Proposed draft text on NDP Announcement
  2. Roy presented: 11-23-248r2

2.5.1 Title: Specification Framework for TGbk

2.5.2 C: For section 3.1, there seems to be some change in corresponding text between r0 and r2. Is this caused by splitting of text or lost ?

2.5.3 R: Roy to check. No text was lost; it was split to different sections.

2.6 Yanjun presented: 11-23-390

2.6.1 Title: 11bk spec text for NDP Announcement

2.6.2 C: some editorial question on occurrence of “a HE TB Ranging NDP”

2.6.3 R: change to “an ..”

2.6.4 C: Replace occurrence of “otherwise” to clarify.

2.6.5 R: change to a more explicit sentence.

2.6.6 C: [P11] multiple people concern on whether there is backward compatibility issue if R2I LMR to one user is mandated to be carried in HE SU PPDU i.e., change from “may” to “shall”.

2.6.7 C: we have EHT SU PPDU now. Need to clarify the choices in PPDU format for transmission to one user.

2.6.8 R: Added a note to clarify the case of R2I LMR to only one user, the frame can be sent in HE SU, HE MU or EHT MU PPDU including EHT SU transmission. Also made changes to the paragraph in question.

2.6.9 C: [P15] Since R2I NDP in NTB is only SU, change from MU to “SU transmission”

2.6.10 R: made corresponding change.

2.6.11 C: skip security part since it might be a longer discussion.

2.6.12 R: only going to describe main changes. Not go through details for now.

2.6.13 C: The GI TYPE parameter being set to 1u6s may be wrong [p25] since it needs to be 1.6 us. Maybe inconsistent in IEEE.

2.6.14 R: out of scope for this document since that’s baseline text but can check.

2.6.15 [P38] if we use new PPDU format for passive ranging in 320 Mhz, we may exclude legacy STAs.

2.6.16 C: may be same issue even with 160 MHz today. Its okay to be more forward looking.

* + 1. R: mark for further discussion.
  1. AoB
  2. Adjourn
  3. Attendance:

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| --- | --- | --- | --- |
| Breakout | Timestamp | Name | Affiliation |
| TGbk | 4/18 | Berger, Christian | NXP Semiconductors |
| TGbk | 4/18 | Bredewoud, Albert | Broadcom Corporation |
| TGbk | 4/18 | feng, Shuling | MediaTek Inc. |
| TGbk | 4/18 | Henry, Jerome | Cisco Systems, Inc. |
| TGbk | 4/18 | Lee, Wookbong | Apple Inc. |
| TGbk | 4/18 | Schweizer, Benedikt | Apple Inc. |
| TGbk | 4/18 | Serizawa, Kazunobu | Advanced Telecommunications Research Institute International (ATR) |
| TGbk | 4/18 | Sun, Yanjun | Qualcomm Incorporated |
| TGbk | 4/18 | Wang, Chao Chun | Mediatek Inc |
| TGbk | 4/18 | Wang, Qi | Apple Inc. |
| TGbk | 4/18 | Want, Roy | Google |
| TGbk | 4/18 | Wei, Dong | NXP Semiconductors |

### 3. TGbk – April 25th, 2023

* 1. Called to order byTGbk Chair, Jonathan Segev (Intel Corporation) and Vice Chair Assaf Kasher (Qualcomm), at **10:00 PST,**
  2. Agenda Doc. [**IEEE 802.11-23/193r8**](https://mentor.ieee.org/802.11/dcn/23/11-23-0193-08-00bk-tgbk-march-meeting-agenda.pptx)
  3. Review Patent Policy and logistics

3.3.1 Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested

* + 1. Chair called for any potentially essential patents, no one stepped forward.
    2. Chair reviewed other guidelines for IEEE meetings,
    3. Chair reviewed IEEE antitrust and competition laws, IEEE SA copyright policy,
    4. Chair reviewed IEEE code of ethics and WG participation as an individual professional-no clarification requested
    5. Chair reviewed IEEE 802 ground rules and provided reference to IEEE Standards By-Laws
    6. Chair reminded participants to register their attendance using imat.
    7. Recorded Participation requirement

Headcount: ~12 present

* 1. Agenda
     1. Review technical submissions towards SFD and amendment text
     2. Agenda approved.
     3. Submission list for the telecon:
        1. 11-23-40 Proposal on 320 MHz Ranging NDP
        2. 11-23-390r4 Proposed draft text on NDP Announcement
        3. 11-23-0698r0 11bk Spec text for NDP Announcement - part2
        4. 11-23-415 PDT EHT Ranging NDP
  2. Steve presented: 11-23-40
     1. Title: Proposal on 320 MHz Ranging NDP
     2. Strawpoll:  
        Do you agree that in the EHT Ranging NDP that the PPDU Type and Compression mode subfield of the U-SIG shall be set to 1?

No discussion or objection to the SP.   
Results: unanimous support.

* + 1. Strawpoll:  
       Do you agree that in the EHT TB Ranging NDP that the PPDU Type and Compression mode subfield of the U-SIG shall be set to 0?

No discussion or objection to the SP.   
Results: unanimous support.

* 1. Yanjun presented: 11-23-390r4
     1. Title: 11bk Spec text for NDP Announcement
     2. C: Is there any additional change since last presentation?
     3. R: No. removed some parts.
     4. Strawpoll:  
        Do you support to incorporate the proposed draft text of submission 11-23/0390r4 to the TGbk Draft ?

C: Are there plans for the removed parts ?

R: yes, in a separate document.

Results: (Y/N/A\_ – 8/0/1)

* 1. Yanjun presented 11-23-0698r0:
     1. Title: **11bk Spec text for NDP Announcement – part2**
     2. C: is the “1u6s\_GI” the right convention ?
     3. R: yes, also in 11ax.
     4. C: reword the text to say that if the PPDU format is HE SU, then DOPPLER parameter is 0.
     5. R: Agree.
     6. C: The BW used for passive ranging needs to account for STA capabilities. Need more time to discuss the passive ranging part.
     7. R: ok.
     8. C: the text seems to use TB NDP instead of SU NDP in the passive ranging case.
     9. R: it does not.
     10. C: If the channel BW for NDP is 320 Mhz, then it seems like LMR can only be in EHT MU PPDU. Why is it needed ?
     11. R: will revise the text to clarify.
  2. AoB
     1. C: need editorial guidance from chair and editor.
     2. R: chair will follow up shortly.
  3. Adjourn
  4. Attendance:

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| Breakout | Timestamp | Name | Affiliation |
| TGbk | 4/25 | Das, Dibakar | Intel Corporation |
| TGbk | 4/25 | feng, Shuling | MediaTek Inc. |
| TGbk | 4/25 | Sand, Stephan | German Aerospace Center (DLR) |
| TGbk | 4/25 | Segev, Jonathan | Intel; Intel Corporation |
| TGbk | 4/25 | Serizawa, Kazunobu | Advanced Telecommunications Research Institute International (ATR) |
| TGbk | 4/25 | Shellhammer, Stephen | Qualcomm Incorporated |
| TGbk | 4/25 | Sun, Yanjun | Qualcomm Incorporated |
| TGbk | 4/25 | Wang, Qi | Apple Inc. |
| TGbk | 4/25 | Want, Roy | Google |
| TGbk | 4/25 | Wei, Dong | NXP Semiconductors |