IEEE P802.11  
Wireless LANs

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| TGbk August 2023 Telecon Minutes | | | | |
| Date: 2023-09-01 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Dibakar Das | Intel |  |  | Dibakar.das@intel.com |
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Abstract

This document contains TGbk August 2023 telecon minutes.

### TGbk – Aug 1, 2023

* 1. Called to order by TGbk Chair, Jonathan Segev (Intel Corporation), at **10:00 PST.**
  2. Agenda Doc. IEEE 802.11-[23](https://mentor.ieee.org/802.11/dcn/23/11-23-0989-04-00bk-tgbk-july-meeting-agenda.pptx)/989r**4**
  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 reminded IEEE code of ethics and WG participation as an individual professional independent of others-no clarification requested.
    6. Chair reviewed IEEE 802 ground rules and provided reference to IEEE Standards By-Laws
    7. Chair reminded members again to log their attendance.
  1. Agenda
     1. Review technical submissions towards amendment text
     2. Agenda approved.
     3. Submission list for the telecon:
        1. 11-23-393r4 11bk spec text for IFTM expansion – Yanjun Sun
  2. Yanjun presented: 11-23-393

1.5.1 Title: 11bk spec text for IFTM expansion

1.5.2 C: will change the name of an existing field affect the existing 11az implementations?

1.5.3 No, its backward compatible because legacy STAs don’t support 320 MHz and this only applies for 320 MHz behavior.

1.5.4 Made change online to the Max NSS subelement format to make the size 1 octet.

1.5.5 C: Typically don’t change the name of a baseline field.

1.5.6 R: it should be fine. Other TGs have also done similar changes.

1.5.7 C: In P2, are you suggesting to use the EHT-MCS map element into the Transmit Power envelop element ?

1.5.8: No

1.5.9: C: Regarding difference of why we don’t have MCS support signaling similar to 11be .

1.5.10: R: likely because of receive bitrate limitations for data.

1.5.11: C why the TPE not signaled to associated STAs ?

1.5.12: R: because its signaled separately in associated case (e.g., beacon because STAs are monitoring). Note with this proposal the TPE signaling to unassociated STAs is possible dynamically.

1.5.13: C: typo in P6 about “MHz”

1.5.14: fixed.

1.5.15: In P12, whether we added similar changes as for passive ranging case also for regular TB case ?

1.5.16: need to double-check the draft offline.

1.5.17: C: don’t see any normative text about what action is taken regarding to the TPE element ? it probably needs to be part of Tx procedure.

1.5.18: R: for associated case, baseline text already defines them. Noted need to address the unassociated case.

1.5.19:C: TPE is mostly relevant for 6 GHz transmission.

1.51.20: R: will think more offline on backward compatibility.

1.6 AOB

1.7 Adjourned at 11:00 PDT.

Attendance:

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| --- | --- | --- | --- |
| TGbk | 08/01 | Jonathan Segev | Intel Corporation |
| TGbk | 08/01 | Raissinia, Alireza | Qualcomm Incorporated |
| TGbk | 08/01 | Shuling Julia Feng | Mediatek |
| TGbk | 08/01 | Sun, Yanjun | Qualcomm Incorporated |
| TGbk | 08/01 | Wang, Qi | Apple Inc. |
| TGbk | 08/01 | Wei, Dong | NXP Semiconductors |
| TGbk | 08/01 | Dibakar Das | Intel Corporation |

### TGbk – August 15th, 2023

* 1. Called to order by TGbk Chair, Jonathan Segev (Intel Corporation) and Vice Chair Assaf Kasher (self), at **10:00 PST.**
  2. Agenda Doc. [**IEEE 802.11-23/989r5**](https://mentor.ieee.org/802.11/dcn/23/11-23-0989-05-00bk-tgbk-july-meeting-agenda.pptx)
  3. Review Patent Policy and logistics
     1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested
     2. Chair called for any potentially essential patents, no one stepped forward.
     3. Chair reminded participants to register their attendance using imat.
     4. Chair reviewed other guidelines for IEEE meetings,
     5. Chair reviewed IEEE antitrust and competition laws, copyright policy,
     6. Chair reminded IEEE code of ethics and WG participation as an individual professional independent of others-no clarification requested.
     7. Chair reviewed IEEE 802 ground rules and provided reference to IEEE Standards By-Laws
     8. Chair reminded members again to log their attendance.
  4. Agenda
     1. Review technical submissions towards amendment text
     2. Agenda approved.
     3. Submission list for the telecon:
        1. 11-23-393r5 11bk spec text for IFTM expansion – Yanjun Sun
  5. Yanjun Sun presented 11-23-393r5
     1. Title: 11bk Spec Text for IFTM Expansion
     2. C: editorial suggestion to fix misspelling of “envelop”.
     3. C: P6 what is the proposed text change, if any ?
     4. R: this is the proposed text change. Added editorial instruction.
     5. C: can we instead treat signaling of TPE as a form of parameter modification and termination case ?
     6. R: open to moving the text to that section.
     7. C: P7 does the term “indoor standard power AP” exist ?
     8. R: it is used in REVme.
     9. C: Is “should” appropriate for section 11 ?
     10. R: Its appropriate because it signals a recommendation.
     11. SP:
         1. We support the changes identified by submission 11-23-393r6 to the P802.11bk draft.
         2. No discussion.
         3. Results (Y/N/A): 7/0/2
  6. AOB
  7. Adjourned at 10:45 AM PDT

Attendance:

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| --- | --- | --- | --- |
| TGbk | 08/15 | Jonathan Segev | Intel Corporation |
| TGbk | 08/15 | Dibakar Das | Intel Corporation |
| TGbk | 08/15 | Yanjun Sun | Qualcomm Corporation |
| TGbk | 08/15 | Ali Raissinia | Qualcomm Corporation |
| TGbk | 08/15 | Christian Berger | NXP Semiconductors |
| TGbk | 08/15 | Niranjan Grandhe | NXP Semiconductors |
| TGbk | 08/15 | Roy Want | Google |
| TGbk | 08/15 | Shuling Julia Feng | Mediatek |
| TGbk | 08/15 | Assaf Kasher | Self |
| TGbk | 08/15 | Nehru Bhandaru | Broadcom |
| TGbk | 08/15 | Qi Wang | Apple |

### TGbk – August 29th, 2023

* 1. Called to order by TGbk Chair, Jonathan Segev (Intel Corporation), at **10:00 PST.**
  2. Agenda Doc. [IEEE 802.11-23/989r](https://mentor.ieee.org/802.11/dcn/23/11-23-0989-07-00bk-tgbk-july-meeting-agenda.pptx)**[7](https://mentor.ieee.org/802.11/dcn/23/11-23-0989-07-00bk-tgbk-july-meeting-agenda.pptx)**
  3. Review Patent Policy and logistics
     1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested
     2. Chair called for any potentially essential patents, no one stepped forward.
     3. Chair reminded participants to register their attendance using imat.
     4. Chair reviewed other guidelines for IEEE meetings,
     5. Chair reviewed IEEE antitrust and competition laws, copyright policy,
     6. Chair reminded IEEE code of ethics and WG participation as an individual professional independent of others-no clarification requested.
     7. Chair reviewed IEEE 802 ground rules and provided reference to IEEE Standards By-Laws regarding fair and equitable participation.
     8. Chair reminded members again to log their attendance.
  4. Agenda
     1. Review technical submissions towards amendment text
     2. Submission list for the telecon:
        1. 11-23-049 Motion compendium (Jonathan Segev)
        2. 11-23-1421 Spec text for MLD handling (Yanjun Sun)
     3. Agenda approved
  5. 11-23-049
     1. Motion (202308-01):

Move to adopt document 11-23-393r6 to the 802.11bk draft, instruct the technical editor to incorporate it in the 802.11bk draft amendment text and grant editorial rights to the technical editor.

Moved: Yanjun Sun

Seconded: Christian Berger

* + 1. No discussion. Motion approved with unanimous consent.
  1. Yanjun Sun presented 11-23-1421
     1. Title: PDT on MLD handling
     2. C: are the frame exchanges still on same link ?
     3. R: Yes. The AP is required to respond to an IFTMR on same link in which it got the IFTMR.
     4. C: does the rule about EMLSR STAs apply to Mgt frames ?
     5. R: yes
     6. C: how is the capability signaled ?
     7. R: we assume AP knows this from client. For associated STAs its known during association. For unassociated STAs this needs to be signaled too. Will double-check.
     8. C: What about NSTR or EMLMR ?
     9. C: is AP’s capability on link basis not conveyed in beacon ?
     10. R: Regular APs are assumed to be always STR. NSTR Mobile APs do exist though however.
     11. C: For 10ms, clients are not doing anything waiting to get IFTM. This is not a long time. Why not just skip MU-RTS ?
     12. R: check if the group prefers that direction,
     13. C: STA may or may not support 11az on one of the links. Is switching even feasible ?
     14. R: session is per-link. Better to send response on single link.
     15. C: need to think more about EMLSR for FTM. Cant say that EMLSR rules are skipped while doing ranging. Non-AP MLD typically going in and out of EMLSR modes might be problematic.
     16. R: if client sets up different ranging sessions on different links on non-overlapping times, that should be fine. So, we are not prohibiting multi-link operation.
     17. C: is MU-RTS/CTS scalable ?
     18. R: probably can use BSRP instead.
     19. C: may be hard to change EMLSR rules
     20. R: think it may be clean to continue not have anything besides ranging related frames inside availability window.
     21. C: same point that it might be clean.
     22. R: for non-TB case there is potential to include client side performance by using whichever channel is available.
     23. R: acknowledged.
     24. C: Single FTM session at MAC is used for both ranging and time-sync. Does having MLD change that ?
     25. R: seems like this is out-of-scope for MAC/PHY protocol.
     26. C: can take advantage of MLO for NTB case even if we setup independent session on two devices.
  2. AOB
  3. Adjourned at 11:24 AM PDT

Attendance:

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| --- | --- | --- | --- |
| TGbk | 08/29 | Jonathan Segev | Intel Corporation |
| TGbk | 08/29 | Dibakar Das | Intel Corporation |
| TGbk | 08/29 | Yanjun Sun | Qualcomm Corporation |
| TGbk | 08/29 | Ali Raissinia | Qualcomm Corporation |
| TGbk | 08/29 | Christian Berger | NXP Semiconductors |
| TGbk | 08/29 | Niranjan Grandhe | NXP Semiconductors |
|  |  |  |  |
| TGbk | 08/29 | Dong Wei | NXP Semiconductors |
| TGbk | 08/29 | Roy Want | Google |
| TGbk | 08/29 | Shuling Julia Feng | Mediatek |
| TGbk | 08/29 | Gaurav Patwardhan | HPE |
| TGbk | 08/29 | Qi Wang | Apple |