IEEE P802.11  
Wireless LANs

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| July 2023 Plenary minutes | | | | |
| Date: 2023-07-28 | | | | |
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Abstract

This document contains TGbk July 2023 Plenary minutes

1. **TGbk – July 10th, 2023**
   1. Called to order by TGbk Chair, Jonathan Segev (Intel Corporation) at **7:30 EST,** Agenda Doc. **[IEEE 802.11-989/r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0989-00-00bk-tgbk-july-meeting-agenda.pptx) (in progress - slide 1)**
   2. Review Patent Policy and logistics
      1. Chair reviewed meeting logistics and the duty to register if one is present at the meeting
      2. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      3. Chair called for any potentially essential patents, no one stepped forward
      4. Chair reminded participants to register their attendance using imat.
      5. Chair reviewed other guidelines for IEEE meetings, including anitrust and competition laws, provided link to patent-related information asked if any clarifications are requested, no one stepped forward.
      6. Chair reviewed IEEE copyright policy, – no clarification requested
      7. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
      8. Chair reviewed IEEE-SA standards ByLaws
      9. Chair reviewed IEEE 802 ground rules
      10. Chair reminded audience again about attendance.
   3. Agenda for the week
      1. Approval of previous meeting minutes and motion from draft text meeting threshold (15min)
      2. Review technical submission.
      3. Review proposed draft text
      4. Review progress made during the week – 5 min special order
      5. Review program timelines – 10 min special order
      6. Review and setup telecon plan – 5 min special order
      7. Review submission pipeline – 5 min special order
   4. Agenda for July 10th meeting
      1. Submission pipeline – slide 24
      2. Approval of previous meeting minutes and motion from draft text meeting threshold
      3. Review proposed draft text.
      4. Review technical submission
         1. 11-23-1067 - TB Ranging with EHT and HE TB PPDU– Christian Berger
   5. Motion to approve previous meeting minutes
      1. Motion 202307-01

Move to approve document 11-23/963r0 as TGbk meeting minutes for the 2023 May IEEE meeting week.

Moved by: Dibakar Das

Seconded by: Roy Want

* + 1. Approved by Unanimous ConsentMotion 202307-02

Move to approve document 11-23/1089r0 as TGbk meetings minutes for telecons running between the 2023 May and July IEEE meeting weeks.

Moved by: Roy Want

Seconded by: Christian Berger

Approved by Unanimous Consent

* + 1. Motion 202307-03

Move to adopt document 11-23-887r3 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 by: Yanjun Sun

Seconded by: Ali Raissinia

Approved by Unanimous Consent

* 1. Roy Want presented draft spec-text.
     1. C: repeat how to submit draft text.
  2. Christian Berger presented 11-23-1067
     1. C: prefer to tie PPDU format for LMRs to be same as that of the preceding NDPs i.e., use HE PPDU for LMR when preceding NDPs are HE and vice-versa for EHT.
     2. R: clarified from C that the latter is saying TFs are sent with EHT variant when NDP is EHT etc.
     3. Christian created SP with three options. Some discussion to clarify the SP.
     4. C: ask more time to run SP
     5. R: just want to get feedback now.
     6. C: whats the reason to reduce BW: reduce interference for others ?
     7. R: not clear. One intention is to get feedback from AP vendors too.
     8. C: support option 2 because it might be easy for clients
     9. C: one aspect to consider is the noise figure. Higher BW leads to higher noise figure.

Strawpoll with three options:

O1: If TB Ranging starts with 320 MHz, keep 320 MHz bandwidth occupied “throughout” (all frames “EHT format”)

O2: If TB Ranging starts with 320 MHz (can reduce bw), then all frames shall be “EHT format” O3: Any frame that occupies 320 MHz is “EHT format”, for 160 MHz or less all frames use “HE format”

Result : 2/7/3/12 (no answer)

* 1. Yanjun presented 11-1052r0
     1. Title: 11bk Spec text for TB ranging sequence
     2. C: In P7, change to “ if the TF Ranging sounding is soliciting an HE TB Ranging NDP, the RSTA shall…”
     3. R: accept
     4. C: track changes does not seem to capture all changes relative to 11az
     5. R: while copying baseline text from previous submission, did not enable track change for parts that are not touched.
     6. C: need to underline the changes.
     7. C: align with guidelines received from editor.
     8. C: this is not needed since this is baseline.
     9. R: we think it helps interoperability.
     10. C: which TF need to be sent in non-HT Dup ?
     11. R: All Ranging TFs.
     12. C: editorial.
     13. C: can 11az STAs decode EHT variant TF ?
     14. R: designed for backward compatibility.
     15. C: there could be multiple rounds of 320 MHz (e.g., two 320 MHz measurement exchanges) and 160 Mhz sequences in same TXOP. The text should capture that,
     16. R: add parentheses “(TB)”.
  2. Recess

1. **TGbk – July 11th, 2023**
   1. Called to order by TGbk Chair, Jonathan Segev (Intel Corporation) at **7:30 EST,**
   2. Agenda Doc. **[IEEE 802.11-989/r1](https://mentor.ieee.org/802.11/dcn/23/11-23-0989-01-00bk-tgbk-july-meeting-agenda.pptx) (in progress - slide 1)**
   3. Review Patent Policy and logistics
      1. Chair reviewed meeting logistics and the duty to register if one is present at the meeting.
      2. Reminder to log attendance
      3. Chair reminded audience of the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      4. Chair reminded about other guidelines for IEEE meetings, anitrust and competition laws, provided link to patent-related information asked if any clarifications are requested, no one stepped forward.
      5. Chair called for any potentially essential patents, no one stepped forward.
      6. Chair reminded IEEE copyright policy, – no clarification requested.
      7. Chair reminded IEEE code of ethics and reviewed WG participation as an individual professional. – no clarification requested
      8. Chair reviewed IEEE-SA standards ByLaws about fair and equitable consideration of viewpoints.
      9. Chair reviewed IEEE 802 ground rules
      10. Chair provided 2nd attendance reminder
   4. Agenda
      1. Review technical submission towards amendment text (as time permits):
         1. 11-23-1052 PDT TB ranging sequence - Yanjun Sun
         2. 11-23-1067 TB Ranging with EHT and HE TB PPDU - Christian Berger
         3. 11-23-1234 EHT LTF field using secure EHT LTF- Christian Berger
      2. AOB
      3. Agenda approved.
   5. Chrisian presented 11-1234r0
      1. Title - EHT LTF field using secure EHT LTF
      2. C: In P4 Pseudorandom octet index, why does it start with 7 ?
      3. R: copied from 11az. First 6 correspond to phase rotation.
      4. C: clarification q from Jerome on “..other than the nonzero entries” last page.
      5. R: we can refer as “entries not in the list” to be 0.
      6. C: q about leaving the table reference as TBD.
      7. R: check baseline abt how LTF is used.
      8. C: request to defer
   6. Christian presented 11-23-1067r1
      1. Title: TB Ranging with EHT and HE TB PPDU
      2. C: on AP side, not sure why anyone wont continue working on EHT after starting with EHT. On BW side, don’t see need of going below 160 MHz while reducing BW. Support option 2.
      3. C: clarification requested on whether TFs use EHT format or non-HT Dup format ?
      4. R: clarify that “EHT format” for TF means here that the MAC part is EHT variant.
      5. C: emphasize need to limit combinations of mixing HE/EHT in standard itself.
      6. Motion 202307-05

Move to agree that the TB measurement sequence using a 320MHz bandwidth for the measurement sounding phase shall follow the below behavior:

1. the R2I LMR shall be sent in an EHT MU PPDU.

2. the TF Ranging LMR shall solicit EHT TB PPDUs.

C: is any BW possible for 320 MHz ?

R: clarify that its for the measurement sounding phase. Revised the text.

Moved; Christian Berger

Seconded: Ali Raissinia

No discussion

Motion approved with unanimous consent.

* 1. Yanjun Sun presented 11-23-1052r1
     1. Title: TB Ranging with EHT and HE TB PPDU
     2. Motion 202307-04

Move to adopt document 11-23-1052r1 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: Ali Raissinia

No discussion

Motion approved with unanimous consent.

* 1. Christian presented 11-23-1253 (new addition)
     1. Title: Ranging Parameters Element 320 MHz support
     2. C: has it been presented before ?
     3. R: presented but not accepted.
     4. C: need to double-check if we need 320 MHz-1 or 320MHz-2 instread of 320 MHz only. After checking it looks fine.
     5. C: fine with proposed text since this is a capability exchange.
     6. Plan to motion tomorrow
  2. Adjourned at 9:14 am EST

1. **TGbk – July 12th, 2023**
   1. Called to order by TGbk Chair, Jonathan Segev (Intel Corporation) at **2:00 EST,**
   2. Agenda Doc. **[IEEE 802.11-989/r2](https://mentor.ieee.org/802.11/dcn/23/11-23-0989-02-00bk-tgbk-july-meeting-agenda.pptx) (in progress - slide 1)**
   3. Review Patent Policy and logistics
      1. Chair reviewed meeting logistics and the duty to register if one is present at the meeting
      2. Reminder to log attendance
      3. Chair reminded audience of the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      4. Chair reminded about other guidelines for IEEE meetings, anitrust and competition laws, provided link to patent-related information asked if any clarifications are requested, no one stepped forward.
      5. Chair reminded patent policy, no one stepped forward
      6. Chair reminded IEEE copyright policy, – no clarification requested
      7. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
      8. Chair reviewed IEEE-SA standards ByLaws: fair and equitable
      9. Chair provided 2nd attendance reminder
   4. Agenda
      1. Review technical submission towards amendment text (as time permits):
         1. 11-23-1234 EHT LTF field using secure EHT LTF- Christian Berger
         2. 11-23-1253 Ranging parameters element 320MHz Support – Christian Berger
         3. 11-23-1270 PDT LMR for TB meas. Exchange - Yanjun Sun
      2. Agenda approved.
   5. Chrisian presented 1234r1
      1. Title: EHT LTF field using secure EHT LTF
      2. C: Need to clarify whether first segment is lowest frequency and fourth is highest. If follow 11be norm, then “segment” in detailed description should be changed to “sub-block”
      3. R: made corresponding change.
      4. Motion 202307-06

Move to adopt document 11-23-1234r2 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: Christian Berger

Second: Rich Kennedy

No discussion.

Motion approved unanimously.

* 1. Chrisian presented 1253r1
     1. Title: Ranging Parameters Element 320 MHz support
     2. Motion 202307-07

Move to adopt document 11-23-1253r1 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: Christian Berger

Second: Roy Want

No discussion.

Motion approved unanimously.

* 1. Yanjun presented 1270r0
     1. Title: PDT LMR for TB measurement exchange
     2. C: The “only” is added because we need to clarify that EHT TB PPDU for NDP is not used for non-320 MHz measurement cases.
     3. C: Chair points to style guide’s reference to usage of “only”. Need to follow the suggested text format in styleguide to avoid later comments.
     4. C: The styleguide example does not cover the case in this doc.
     5. R: Change text by removing “only” and “otherwise”.
     6. C: should we merge with previous paragraph ?
     7. R: separate paragraph is better.
     8. C: “shall be transmitted” seems to be correct wording.
     9. C: (to editor) check what’s the opinion of adding “(s)” in spec text and make editorial changes as necessary.
     10. C: in reporting phase, TF should be single.
     11. Motion 202307-08

Move to adopt document 11-23-1270r1 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

Second: Rich Kennedy

No discussion.

Motion approved unanimously.

* 1. Review progress:
     1. C: Should puncturing pattern discussion be separate ?
     2. R: its captured in PHY section.
     3. C: TB and NTB negotiation topic seems to be shown longer than necessary.
     4. C: do we need to address MLO aspects
     5. R: the STAs and PHY are independent in MLO. The scope of the PAR is 320 MHz and does not include MLO.
     6. C: if we know where the client is, we can avoid bringing up case of EML devices.
     7. C: are we at roughly 75% completion for TB and NTB measurement sequence ?
     8. R: yes
     9. C: where we are at for TB and NTB negotiation ?
     10. R: probably at halfway point.
     11. C: where we are at for MAC section pseudo random LTF sequence
     12. R: at least 55%; closer to 60 or 75%
     13. C: elements and frame format : roughly at 30%
     14. C: passive ranging: almost complete except to address a comment on mixing 11bk and 11az devices.
     15. Tx rx ltf vectors: roughly at 80%.
  2. Adjourned at 12:52 AM PST