IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TGbn January 2025 Meeting Minutes | | | | |
| Date: 2025-02-13 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yusuke Asai | NTT |  |  | yusuke.asai@ntt.com |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document contains the minutes for TGbn January 2025 sessions.

Revision history:

* Rev0: Initial version of the document.

Abbreviations:

* C: Comment.
* A: Answer.

# January 13th, Monday (10:30-12:30 JST) - Joint

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* Yusuke Asai (NTT) is serving as the Secretary.
* Registration information
  + The chair announced that registration is needed to attend this meeting.
* Meeting protocol
  + The chair announced that everyone is required to log in WebEx to vote.
  + Please ensure that the following information is listed correctly when joining the call:
    - "[voter status] First Name Last Name (Affiliation)"
* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please record your attendance during the conference call by using the IMAT system:
    - 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802 Wireless Interim/Plenary Session” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbn conference call that you are attending.
  + If you are unable to record the attendance via [IMAT,](https://imat.ieee.org/attendance) then please send an e-mail to:
    - Joint: Yusuke Asai ([yusuke.asai@ntt.com](mailto:yusuke.asai@ntt.com)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
    - PHY: Sigurd Schelstraete ([sschelstraete@maxlinear.com](mailto:sschelstraete@maxlinear.com)), Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com)), and Dongguk Lim ([dongguk.lim@lge.com](mailto:dongguk.lim@lge.com))
    - MAC: Xiaofei Wang ([xiaofei.wang@interdigital.com](mailto:xiaofei.wang@interdigital.com)), and Srinivas Kandala ([srini.k1@samsung.com](mailto:srini.k1@samsung.com)), Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
* IEEE 802 and 802.11 IPR policy and procedure
  + Patent Policy: Ways to inform IEEE:
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair.

**Nobody spoke/wrote up.**

* + **Patent, Participation, Copyright and policy related subclause:** Please refer to the agenda document ([11-24/2074r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2074-03-00bn-tgbn-jan-2025-meeting-agenda.pptx).)
  + Copyright Policy: Participants are advised that
    - IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
    - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

**Copyright Policy was presented.**

* Announcement
  + Chair announced that the target the creating of TGbn D0.1 by the end of this F2F meeting.
* Summary from November 2024 meeting
  + Held 8 teleconferences between September and November 2024 ([11-24/1988r15](https://mentor.ieee.org/802.11/dcn/24/11-24-1988-15-00bn-nov-jan-tgbn-teleconference-agenda.docx)).
    - Discussed ~30 submissions, ~30 PDTs and ran ~ 30 straw polls
      * Trigger, enhanced long range, coordinated spatial reuse, prioritized EDCA, non-primary channel access, control frames, multi-AP framework, unequal modulation, preamble design, distributed RUs, Coordinated RTWT, roaming, power save, peer-to-peer, feedback, QoS, U-SIG, PPDU format, sounding, buffer status report, bandwidth expansion, Coordinated BF, interference mitigation, 2x LDPC, etc.
    - Approved ~25 motions, including the first PDT, warming up for TGbn D0.1
  + Targets for the January Interim
    - Presentation of PDTs, technical submissions and run SPs
      * ~170 pending submissions and ~30 pending SPs on presented submissions
      * ~30% of PDTs left to be presented, and rest are pending SP or R4M
      * Continue populating the TGbn SFD with approved concepts
      * Generate TGbn D0.1 with text from approved PDTs
* Agenda
  + Chair reviewed proposed agenda found in [11-24/2074r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2074-03-00bn-tgbn-jan-2025-meeting-agenda.pptx).
  + Discussion:

C: The submission [11-24/1822r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-00-00bn-cobf-design-for-uhr.pptx) about CBF was requested to be on joint or PHY earlier slot.

C: [11-24/0963r1](https://mentor.ieee.org/802.11/dcn/24/11-24-0963-01-00bn-enhancement-of-bsr-follow-up.pptx), was deferred by the presenter.

C: The contribution [11-24/1837r0](https://mentor.ieee.org/802.11/dcn/24/11-24-1837-00-00bn-uhr-ndpa-signaling.pptx) in joint session was requested.

* + The modified agenda (as in [11-24/2074r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2074-04-00bn-tgbn-jan-2025-meeting-agenda.pptx)) was approved with unanimous consent.
* Approval TG Minutes
  + **Motion:**

Move to approve TGbn minutes listed below:

* + - November plenary: <https://mentor.ieee.org/802.11/dcn/24/11-24-2019-00-00bn-tgbn-november-2024-meeting-minutes.docx>
    - Teleconferences Nov’24-Jan’25: <https://mentor.ieee.org/802.11/dcn/24/11-24-2138-03-00bn-tgbn-december-2024-january-2025-teleconferences-minutes.docx>

Move: Yusuke Asai Second: Al Petrik

* + - Discussion: None.

**Approved with unanimous consent.**

* Straw Polls
  + **SP1:** [11-24/1822r4](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx): COBF Design for UHR Sameer Vermani (Qualcomm)

Do you agree to add the following to the 11bn SFD:

* + - For the COBF case, the information in the NDPA for the responding AP has a unified design for joint-NDP based sounding as well as cross-BSS section of sequential sounding.

*Supporting documents: [*[*24/1822r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx)*]*

* + - Discussion: None.

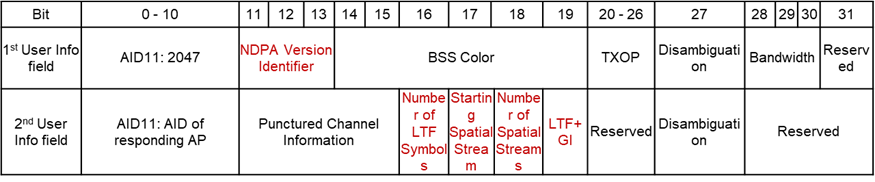
**Result: No objection.**

* + **SP2:** [11-24/1822r4](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx): COBF Design for UHR

Sameer Vermani (Qualcomm), Qinghua Li (Intel), You-Wei Chen (MediaTek)

Do you agree to include the following to the 11bn SFD?

* + - When the initiating AP requests the responding AP to join the Cob sounding, the red subfields in the first and second User Info fields of the NDPA shall be set as follows.
      * NDPA Version Identifier is set to 0 for Cob sounding in UHR
      * Number of LTF symbols is set to 0 and 1 for 4 and 8 symbols, respectively
      * Starting Spatial Stream is set to 0 and 1 for the 1st and 5th streams, respectively
      * Number of spatial streams is set to 0 and 1 for the 4 and 8 streams, respectively
      * LTF+GI is set to 0 and 1 for 2x LTF+0.8us GI and 2x LTF+1.6us GI, respectively
      * B20-26, which are shown as Reserved in the second User Info field, can be used in the future



*Supporting documents: [*[*11-24/1822r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx)*,* [*11-24/1835r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1835-03-00bn-backward-compatible-sounding-for-cobf.pptx)*,* [*11-24/1865r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1865-03-00bn-universal-sounding-and-ndpa-signaling.pptx)*]*

* + - Discussion:

C: We have a proposal regarding the reserved bit utilization of Bit 20 – 26 for the 2nd User Info field. So, could you separate that the normal utilization of the reserved field?

A: The reserved bits can be used if you find an appropriate use for it.

C: We still have not made the decision about how to allocate AP ID is not finalized yet. He AID collision issue should be resolved.

A: We are open to that discussion. We feel that AID11 is good enough for this purpose.

**(SP was moved to the next session.)**

* PDT submissions:
  + [11-24/2030r5](https://mentor.ieee.org/802.11/dcn/24/11-24-2030-05-00bn-pdt-mac-coordinated-beamforming.docx): PDT MAC Coordinated Beamforming Jason Yuchen Guo (Huawei)

C: In the subsection 3.2, it mentions to form nulls to the antennas of the unintended recipient STAs. I think this is the case when it is full nulling, which means that you form nulls to the entire physical channels from the AP to the unintended STAs. However, it is not the case if you form partial nulls.

A: I think it is better to mention that.

C: I also object to the original text that it just talks about unintended recipient STAs.

C: I made the PDT text of the CBF on PHY aspect. You have two options, nulling to the antennas of the stations, or to a subset of the eigen values of the eigen vector of the channels

(The commentor provided the following text via chat window)-----

Depending on the channel knowledge available and the number of antennas available at the APs, the steering matrices used by all the APs may ensure a minimal signal strength of an AP’s spatial streams at either all the receive antennas of all the OBSS AP’s recipients or, if those recipients have more than a single receive antenna, over a subspace of the eigen-modes of the channels to the OBSS AP’s recipients.

-----

C: There is some text in PHY section which can be carried over there for a more precise definition of this.

(The straw poll was not run and it will be presented on the next joint session.)

* + 11-24/[2028r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2028-02-00bn-pdt-joint-sounding-procedure.docx): PDT Joint Sounding Procedure You-Wei Chen (MediaTek)

C: In the subsection 37.6.1, I recommend changing to indicate that is for the APs to transmit these things. Another point regarding addressing, I understand you talk about being addressed to specific thing. I would like to make sure that.

A: I just followed many parts from 11be sections and update for 11bn.

C: I think it sounds like you’re doing this for the transmission of the STAs, instead of the APs.

A: I have another submission to clarify AP coordination.

C: From figure, it seems that there are two different TXOPs. Is that already defined and agreed on?

A: There are allowed to be in different STAs but they are not decided yet.

C: The note says that that is allowed both options, or maybe this PDT says that entire sounding sequence is going to be carried out in a single TXOP example. Do we have a motion that is explicitly saying that we can allow to happen in different TXOPs?

A: I don’t think we have specific motion on that.

C: As long as we don’t have a motion that is explicitly allowed for splitting the sounding sequences into multiple TXOPs, then I would request to remove the notes.

(Chair proposed to make the note as TBD.)

C: Does that apply that to the joint sounding sequence?

A: I think it is not a single sequence.

C: There is no text to use single TXOP and should be TBD. I disagree with writing it is TBD only for this different TXOP.

(Chair proposed to make that change.)

**SP:** Do you support to include 24/[2028r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2028-03-00bn-pdt-joint-sounding-procedure.docx) to the TGbn D0.1?

**Result: No objection.**

* + [11-24/2010r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2010-01-00bn-pdt-phy-nominal-packet-padding-selection.docx): 11bn PDT Joint Nominal Packet Padding Selection Mengshi Hu (Huawei)

C: I’m not sure we need to redefine the PD threshold. I’m not sure if using the EHT is enough. There was no motion on that.

A: I can remove it until we have.

C: I agree with the previous commenter. The table to carry over is very complicated.

(No need to run SP and wait until there are passed motions on the topic.)

* + [11-24/2029r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2029-00-00bn-pdt-joint-mib.docx): PDT-Joint-MIB Li Quan (ZTE)

(No Q+A)

(Schedule update/SP for Wednesday Joint)

* + [11-24/2133r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2133-01-00bn-pdt-joint-trigger-frame.docx): PDT Joint Trigger Frame Alice Chen (Qualcomm)

C: Why do we define the table to determine the TB PPDU type? If we already decide UHR trigger frame are not multiple generations, the whole section can be simplified.

A: This table needs to have some consistency with previous generations. But we need to remove UHR from the row number four. It is just the HD variant instead of HD/UHR variant. If the last two rows are only for EHT possible, then we don’t have UHR in this field, too.

C: Regarding the second paragraph after the figure in the page 15, does this text apply to DRU or also RU or MRU?

A: Currently, it does not mention whether it is applicable to only RRU or DRU

C: I think if we intend to make it apply for DRU, though, I think we need to change it a bit. If so, in addition to the pages 13, the page 15 is also needed to revise. Which motion was this text referred to?

A: Motion 188. We don’t have specific texts mentioning that, but it inherits the meaning that the all the other fiends are not changed from HE variant.

C: This specific information I don’t think we can interpret the motion to mean that to reflect all the text on or all the information included in the table.

C: Regarding the first comment, that is probably something to have a straw poll to clarify. If we don’t have time to straw poll, then you can just have TBD there. Regarding the second comment, I don’t think we need to have another SP to have a totally new different design. It is really about assignment table. The only thing you have question is that for the DRU part, once you get to some tables, how do you convert to the tone plan that you are going to do.

(Chair asked the presenter to share the motion number on the specs to help member identify which changes are relate to which motion.)

(Schedule update/SP for Wednesday Joint)

* + [11-24/1809r2](https://mentor.ieee.org/802.11/dcn/24/11-24-1809-02-00bn-evaluation-of-c-sr-types.pptx): Evaluation of C-SR Types Jun Minotani (Panasonic)

(Only Q+A session)

C: You are asking the shared AP to determine its transmitted power based on the information from the sharing AP. How can you guarantee that the don’t interference to each other?

A: The shared AP decides that power based on the sharing AP’s transmit power that is the destination of the non-AP STAs. The, the shared AP calculates the transmit power for its own destination.

C: Considering the one-way approach, this is very similar to the current SR in the 11ax and 11be. I don’t think you are solving the problems.

C: I am not sure the algorithm of one-way coordination scheme. What is the different from the 11ax spatial reuse? Because one-way SR in 11ax already covers such as OBSS\_PD.

A: The difference is the considering downlink. I think 11ax only considering uplink. This method is considering the sharing and the shared APs. Both of them control the transmit power.

C: How many APs are shared APs in each CSR transmission?

A: In this case, we evaluated three APs. One is the sharing AP and other two are the shared APs.

* + [11-25/0108r](https://mentor.ieee.org/802.11/dcn/25/11-25-0108-00-00bn-enhanced-edca-for-improved-collision-avoidance-and-latency-improvement.pptx)0: Enhanced EDCA for improved Collision Avoidance and Latency Improvement

Sigurd Schelstraete (MaxLinear)

C: In the slide 4, how many rounds will it be during the whole contention?

A: Four or smaller.

C: What is the purpose of adding so many rounds?

A: I have analyzed how much round is needed in the reference [1].

C: Will it be decreased by the APs or always four rounds?

A: It is a fixed level. The simulation setup is that there is a single AP, there is so many STAs between one and 20. All the STAs use the same number of rounds because the STA cannot tell whether or not there is a collision or not. So, you just have to stick to the fixed number.

C: What is the assumption on the frequency synchronization?

A: No more synchronized than CSMA is needed. It is just based on CSMA. So, you observed that the medium becomes busy. That’s your reference point.

C: I agree with that the CST frame is a little bit better than a very short signal. Are you going to replace the first short signal in the only the first slot or all spots?

A: All these short signals are replaced with CTSs.

C: How does this method compare to the case using RTS/CTS?

A: I wanted to build a method from the PHY perspective. So, I have not considered any MAC protocol overly on the top of this. But, obviously, RTS/CTS will help with collisions in general and will still play a role.

C: How about the latency performance?

A: The simulation setup is basically the framework that we agree to here meaning that the whole network is filled with best effort. That causes the congestion background. And then within that background, there is a low latency service. I’ve modeled as voice plus more aggressive parameters than voice.

C: How about the impact on the legacy deices?

A: The CSMA contention is exactly the same as with legacy. So, you don’t get an advantage to the medium. It is just that when you get to the medium, you start doing something else initially before you send you frame.

C: I think the motion regarding prioritized EDCA has already passed. How do you harmonize your proposal with it. My submission would be a call for anyone else interested in this topic to see how we can these principles for improving the EDCA for prioritizing.

C: How do the legacy devices interact with this scheme?

A: In the slide 3, legacy devices might defer at this point, it might collide with you, but the way this short contention runs are setup are such that they are below the minimum AIFS.

C: I think this is a good direction. For one of the main reasons, we have this very bad legacy performance in current Wi-Fi networks. How do you keep balance between this UHR stations using this new feature as you proposed and the legacy stations?

A: There is no fairness issue because you just do CSMA as everyone else don’t get an advantage.

C: But you just mentioned that the collision happens between the stations and there is a legacy station, probably your station is potentially much faster than legacy devices.

A: The reference [1] says there is a slide there talks about legacy stations.

C: What if legacy device with low backoff also join into the collision resolution? Is there any method to protect the collision phase?

C: It is very interesting to see the results especially the fact the CCA stands on part of this new proposed signal. We still need to see how that will behave on the higher level in terms of coexistence with the legacy devices, and especially in the presence of the hidden nodes.

C: In the slide 3, There is some transmission for getting synchronous is done.

A: No. There is no synchronization.

C: They are in different environments that actually it is a real model collection of when they link backoff starting. We don’t have slot synchronization in reality. Your results are interesting, but I want to have more unfortunately complicated simulation results.

A: There is an assumption that all these stations are within CCA distance of each other.

C: That is a huge simplifying assumption.

A: That is not always going to be the case. This was the starting point that I chose to test.

* Aoba: None.
* Recessed at 12:29.

# January 13th, Monday (13:30-15:30 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0158-00-00bn-minutes-for-tgbn-phy-ad-hoc-in-january-2025-interim.docx>

# January 14th, Tuesday (10:30-12:30 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0158-00-00bn-minutes-for-tgbn-phy-ad-hoc-in-january-2025-interim.docx>

# January 14th, Tuesday (13:30-15:30 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0158-00-00bn-minutes-for-tgbn-phy-ad-hoc-in-january-2025-interim.docx>

# January 14th, Tuesday (16:00-18:00 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0158-00-00bn-minutes-for-tgbn-phy-ad-hoc-in-january-2025-interim.docx>

# January 15th, Wednesday (08:00-10:00 PST) - Joint

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* Yusuke Asai (NTT) is serving as the Secretary.
* Registration information
  + The chair announced that registration is needed to attend this meeting.
* Meeting protocol
  + The chair announced that everyone is required to log in WebEx to vote.
  + Please ensure that the following information is listed correctly when joining the call:
    - "[voter status] First Name Last Name (Affiliation)"
* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please record your attendance during the conference call by using the IMAT system:
    - 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802 Wireless Interim/Plenary Session” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbn conference call that you are attending.
  + If you are unable to record the attendance via [IMAT,](https://imat.ieee.org/attendance) then please send an e-mail to:
    - Joint: Yusuke Asai ([yusuke.asai@ntt.com](mailto:yusuke.asai@ntt.com)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
    - PHY: Sigurd Schelstraete ([sschelstraete@maxlinear.com](mailto:sschelstraete@maxlinear.com)), Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com)), and Dongguk Lim ([dongguk.lim@lge.com](mailto:dongguk.lim@lge.com))
    - MAC: Xiaofei Wang ([xiaofei.wang@interdigital.com](mailto:xiaofei.wang@interdigital.com)), and Srinivas Kandala ([srini.k1@samsung.com](mailto:srini.k1@samsung.com)), Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
* IEEE 802 and 802.11 IPR policy and procedure
  + Patent Policy: Ways to inform IEEE:
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair.

**Nobody spoke/wrote up.**

* + Copyright Policy: Participants are advised that
    - IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
    - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

**Copyright Policy was presented.**

* + **Patent, Participation, Copyright and policy related subclause:** Please refer to the agenda document ([11-24/2074r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2074-11-00bn-tgbn-jan-2025-meeting-agenda.pptx)1.)
* Agenda
  + Chair reviewed proposed agenda found in [11-24/2074r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2074-11-00bn-tgbn-jan-2025-meeting-agenda.pptx)1.
  + Discussion: None.
  + The agenda was approved with unanimous consent.
* Straw Polls
  + **SP1:** Jason Y Guo – CSR

Do you support to include in the 11bn SFD:

* + - In Coordinated Spatial Reuse:
      * A sharing AP that intends to initiate a Coordinated Spatial Reuse transmission shall transmit a Trigger frame to initiate concurrent CSR transmissions with one (whether to allow more is TBD) other AP within its obtained TXOP BW;
      * When all addressed non-AP STAs are UHR STAs, the concurrent CSR transmission starts SIFS after the Trigger frame
      * Which trigger frame is TBD

*Supporting document:* [*11-23/1868*](https://mentor.ieee.org/802.11/dcn/23/11-23-1868-02-00bn-coordinated-spatial-reuse-design.pptx)*,* [*11-24/1092*](https://mentor.ieee.org/802.11/dcn/24/11-24-1092-00-00bn-multi-ap-coordinated-concurrent-transmission-protocol.pptx)

* + - Discussion

C: We have the past motion say it is a CBS in the CSR, the shred AP transmits the trigger frame. We still don’t make the decision in the how many shared APs are in the procedure.

A: I think I’m OK to add that. The second point, in the main bullet says the number of the sharing AP is one, but we have a note to whether we allow more than one.

C: At least we have one AP. Whether to allow two or more is TBD.

A: But in the main text, we allow one but if we want to allow more than one, we can come up with another SP.

C: I hope we need to specify how many shared APs are allowed. But if we only limited as the shared AP number that will be limited to one.

A: My intention is also not to limit to only two APs. We are actually aligned on this part, but it is just we move forward with two AP first and because at least we need to have two AP.

C: It is the TBD how many AP is the trigger frame. Is that OK with you?

A: I think that is the same meaning.

C: Yesterday, in the PHY ad-hoc, there was a SP agreed that all the CSR transmission it is start time and timeline. For the first SP, second sub-bullet should be removed.

C: There is suggestion to add with one other TBD to add here.

C: I feel the original straw poll is better. Some technical background is that for one AP we can control the power of the shared AP. So, that won’t cause the problem for the sharing AP.

A: But here the bullet doesn’t touch the power control part.

C: I mean the thing that how do we make it work with well still maintain the reliability.

(Chair proposed to delete the note and some changes on the first sub-bullet.)

(The supporting DCN was added.)

**Result: No objection.**

* + **SP2:** Jason Y Guo – CSR

Do you support to include in the 11bn SFD:

* + - In Coordinated Spatial Reuse, the following information shall be carried in the Trigger frame that initiates concurrent CSR transmissions of the 2 APs
      * The duration of the data PPDU transmitted by the sharing AP and of the data PPDU transmitted by the shared AP, which are the same, after the Trigger frame
      * Other parameters TBD

*Supporting document:* [*11-23/1868*](https://mentor.ieee.org/802.11/dcn/23/11-23-1868-02-00bn-coordinated-spatial-reuse-design.pptx)*,* [*11-24/1092*](https://mentor.ieee.org/802.11/dcn/24/11-24-1092-00-00bn-multi-ap-coordinated-concurrent-transmission-protocol.pptx)

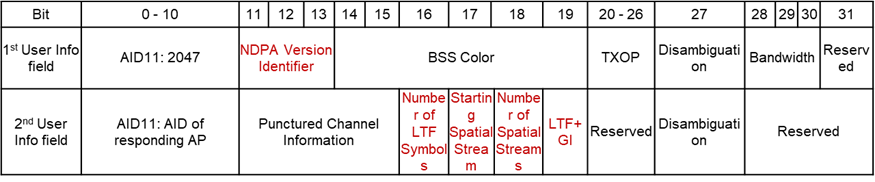
* + - Discussion: None.

**Result: No objection.**

* + **SP3:** Sameer, Qinghua, You-Wei – CBF

Do you agree to include the following to the 11bn SFD?

* + - When the initiating AP requests the responding AP to join the Cob sounding, the red subfields in the first and second User Info fields of the NDPA shall be set as follows.
      * NDPA Version Identifier is set to 0 for Cob sounding in UHR
      * Number of LTF symbols is set to 0 and 1 for 4 and 8 symbols, respectively
      * Starting Spatial Stream is set to 0 and 1 for the 1st and 5th streams, respectively
      * Number of spatial streams is set to 0 and 1 for the 4 and 8 streams, respectively
      * LTF+GI is set to 0 and 1 for 2x LTF+0.8us GI and 2x LTF+1.6us GI, respectively
      * B20-26, which are shown as Reserved in the second User Info field, can be used in the future



*Supporting documents: [*[*11-24/1822r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx)*,* [*11-24/1835r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1835-03-00bn-backward-compatible-sounding-for-cobf.pptx)*,* [*11-24/1865r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1865-03-00bn-universal-sounding-and-ndpa-signaling.pptx)*]*

* + - Discussion: None.

**Result: No objection.**

* + **SP4:** Laurent Cariou– PDT: Coex

Do you agree to incorporate the proposed text changes for coexistence found in [11-24/2040r8](https://mentor.ieee.org/802.11/dcn/24/11-24-2040-08-00bn-pdt-mac-coexistence.docx) into the 802.11bn draft amendment?

* + - Note to Editor: Ensure that the Figure for the UHR variant Common Info field across different PDTs accounts for all proposed changes/insertions of those PDTs
    - Note to Laurent: Upload a revision that shows the fields that are added/modified in this PDT. Have it ready by motion time.
    - Discussion

C: In the page 11, under the motion 153, in the second part for the disablement part, the associated AP shall transmit. Would you mind doing the same order for the sake of consistency for the enablement part?

A: We can fix that after if there is some small change here.

C: In the UHR trigger frame common part, in PHY we have discussion on changing the B54. In addition to this, there are the contributions on the trigger frame PDT and the DRU PDT. We have three tables but this is a new table.

A: We need to add some instruction to the editor.

(Chair added the Notes to the original SP text.)

**Result: No objection.**

* Motions
  + The following motions were conducted according to the motion list ([11-25/0014r](https://mentor.ieee.org/802.11/dcn/25/11-25-0014-00-00bn-tgbn-motions-list-part-2.pptx)2).
  + **Motion 190 (PHY)**

Move to add to the TGbn SFD the following:

* + - The MCS field in the User field of UHR-SIG field consists of 5 bits.
      * The B11 ~ B15 of the UHR-SIG field is assigned for the MCS field
      * The configuration of MCS field is TBD.

*Reference docs: [*[*24/1427r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1427-02-00bn-signaling-for-mcs-and-ueqm-in-11bn.pptx)*]. SP result: No objection.*

Move: Dongguk Lim Second: Eunsung Park

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 191 (PHY)**

Move to add to the TGbn SFD the following:

* + - Define the assigned bits for the NSS field and Spatial Configuration field by considering the maximum NSS is 8 in 11bn
      * For non-MU-MIMO allocation of the UHR SIG field
      * NSS field consists of 3 bits in the User field
    - For MU-MIMO allocation of the UHR SIG field
      * Spatial Configuration field consists of 4 bits in the User field.

*Reference docs: [*[*24/1427r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1427-02-00bn-signaling-for-mcs-and-ueqm-in-11bn.pptx)*]. SP result: No objection.*

Move: Dongguk Lim Second: Eunsung Park

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + Motion 192

(Intentionally left blank)

* + **Motion 193 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/1985r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1985-03-00bn-pdt-phy-unequal-modulation-ueqm-and-new-mcs.docx) to the latest TGbn draft (TGbn D0.1)*Reference docs: [*[*11-24/1985r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1985-03-00bn-pdt-phy-unequal-modulation-ueqm-and-new-mcs.docx)*]. SP result: No objection.*

Move: Rui Cao Second: Rethna Pulikkoonattu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 194 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/1966r2](https://mentor.ieee.org/802.11/dcn/24/11-24-1966-02-00bn-pdt-mac-crtwt.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/1966r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1966-02-00bn-pdt-mac-crtwt.docx)*]. SP result: No objection.*

Move: Giovanni Chisci Second: Stephen McCann

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 195 (PHY)**

Move to add to the TGbn SFD the following:

* + - In the 5bit MCS table
      * MCS17 signals QPSK rate 2/3; MCS19 signals 16QAM rate 2/3;
      * MCS20 signals 16QAM rate 5/6; MCS23 signals 256QAM rate 2/3

Reference docs: [[11-24/1826r1](https://mentor.ieee.org/802.11/dcn/24/11-24-1826-00-00bn-5bit-mcs-table-design.pptx)]. SP result: No objection.

Move: Ron Porat Second: Jianhan Liu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 196 (PHY-PDT)**

Move to add to the TGbn SFD the following:

* + - MU-MIMO+OFDMA in both DL and UL is limited to UHR PPDU of 160 and 320MHz only
      * 160MHz PPDU – 996 and, when the PPDU is punctured, 484+242
      * 320 MHz PPDU: 2x996, 3x996 and, when the PPDU is punctured, 996+484, 2x996+484
    - MU-MIMO+OFDMA is further limited to a maximum of 2RUs supporting MU-MIMO and each 80MHz segment is either MU-MIMO or OFDMA
    - RU Allocation table in UHR-SIG is the same as that in EHT-SIG except that the rows for RU 242, 484 and 3x996+484 with two or more users are changed to Validate

Move: Ron Porat Second: Eugene Baik

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 197 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2046r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2046-04-00bn-draft-text-on-dru.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2046r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-2046-04-00bn-draft-text-on-dru.docx)*]. SP result: No objection.*

Move: Jianhan Liu Second: Shengquan Hu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 198 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2025r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2025-01-00bn-pdt-phy-ru-and-mru-restrictions-for-20-mhz-operation.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2025r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2025-01-00bn-pdt-phy-ru-and-mru-restrictions-for-20-mhz-operation.docx)*]. SP result: No objection.*

Move: Eunsung Park Second: Dongguk Lim

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 199 (PHY)**

Move to add to the TGbn SFD the following:

* + - Exclude BPSK from UHR UEQM.

*Reference docs: [*[*24/1832r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-1832-06-00bn-stream-parser-for-unequal-modulation.pptx)*,* [*24/1807r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-1807-00-00bn-follow-up-on-ueqm-stream-parser.pptx)*]. SP result: No objection.*

Move: Rethna Pulikkoonattu Second: Ying Wang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 200 (PHY)**

Move to add to the TGbn SFD the following:

* + - Include 4K QAM in UHR UEQM.

*Reference docs: [*[*24/1832r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-1832-06-00bn-stream-parser-for-unequal-modulation.pptx)*]. SP result: No objection.*

Move: Juan Fang Second: Rui Cao

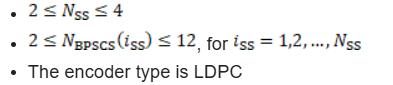
* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 201 (PHY)**

Move to add to the TGbn SFD the following:

* + - Reuse HT stream parser for UHR UEQM with the following restrictions and extension



*Reference docs: [*[*24/1832r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-1832-06-00bn-stream-parser-for-unequal-modulation.pptx)*,* [*24/1451r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1451-02-00bn-ueqm-transmission-over-spatial-streams.pptx)*]. SP result: No objection.*

Move: Juan Fang Second: Alice Chen

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 202 (PHY)**

Move to add to the TGbn SFD the following:

* + - For equal modulation, UHR stream parser remains the same as EHT.

*Reference docs: [*[*24/1832r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-1832-06-00bn-stream-parser-for-unequal-modulation.pptx)*]. SP result: No objection.*

Move: Juan Fang Second: Alice Chen

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 203 (PHY)**

Move to add to the TGbn SFD the following:

* + - For bandwidths greater than 80 MHz, the coded bit parsing of UHR is stream parsing first followed by segment parsing.

*Reference docs: [*[*24/1832r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-1832-06-00bn-stream-parser-for-unequal-modulation.pptx)*]. SP result: No objection.*

Move: Juan Fang Second: Alice Chen

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 204 (PHY-PHY)**

Move to incorporate the proposed text changes in [11-24/2028r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2028-03-00bn-pdt-joint-sounding-procedure.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*24/2028r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-2028-03-00bn-pdt-joint-sounding-procedure.docx)*]. SP result: No objection.*

Move: You-Wei Chen Second: Ross Jian Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 205 (MAC-PHY)**

Move to incorporate the proposed text changes in [11-24/1961r4](https://mentor.ieee.org/802.11/dcn/24/11-24-1961-04-00bn-pdt-mac-c-tdma.docx) to the latest TGbn draft (TGbn D0.1)

* + - Note to Editor: Insert (TBD) at the end of the caption for Figure 37.X.

*Reference docs: [*[*11-24/1961r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1961-04-00bn-pdt-mac-c-tdma.docx)*]. SP result: No objection.*

Move: Sanket Kalamkar Second: Abhishek Patil

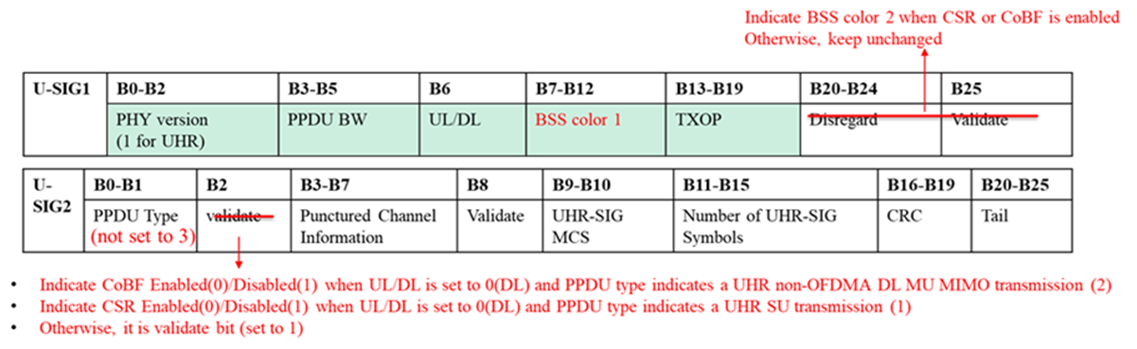
* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 206 (PHY)**

Move to add to the TGbn SFD the following:

* + - CoBF is only applied in DL non-OFDMA MU MIMO transmission
    - C-SR is only applied in DL SU transmission in each BSS
    - The entire U-SIG format in a UHR MU PPDU is as in the following figure
    - BSS color 1 and 2 are the BSS color of the two Coordinated BSSs with the order TBD



*Reference docs: [*[*24/1834r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1834-04-00bn-11bn-non-elr-signaling-design-for-new-features.pptx)*,* [*24/1831r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1831-03-00bn-uhr-u-sig-and-uhr-sig-common-field-general-design.pptx)*,* [*24/1864r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-1864-01-00bn-map-ppdu-consideration-and-harmonized-u-sig-signaling.pptx)*]. SP result: 55Y/8N/22A.*

Move: Alice Chen Second: You-Wei Cheng

* + - Discussion:

C: For the beamforming case, it is a limited to only applied in downlink non-OFDMA transmission. So, it is a very strong constraint. At least in previous motions, we see that

C: I have same concern with the previous commenter. I think this cannot preclude the other mode of CSR.

A: I think this has discussed in PHY, and from PHY point of view, we get some restriction to achieve a trade-off between the performance and the complexity. So, I am supportive of this motion.

(Chair conducted the counting vote.)

**Preliminary Result: 159Y, 22N, 52A, Preliminary passed.**

**Result: 149Y, 22N, 49A, Passed.**

* + **Motion 207 (PHY-PDT)**

Move to insert the proposed text changes below to Section 38.3.19.2 (Pre-correction accuracy requirements) of [11-24/1981r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1981-03-00bn-pdt-elr.docx), and to the latest TGbn draft (TGbn D0.1)

* + - For the ELR PPDU carrying immediate response frame in response to a preceding soliciting frame, after compensation, the absolute value of residual CFO error with respect to the preceding PPDU carrying soliciting frame shall not exceed 15 kHz at the 10% point of the complementary cumulative distribution function (CCDF) of CFO error in AWGN at a received power of -82 dBm in the primary 20 MHz channel.

*Reference docs: [*[*11-24/1841r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-1841-01-00bn-uhr-elr-design-open-topics.pptx)*]. SP result: No objection.*

Chair’s note: Ensured instructions are clear to the group and TGbn editor.

Move: Rui Cao Second: Lin Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 208 (PHY-PDT)**

Move to replace the “TBD” to “8 us” for the PE block in the Figure 38-xx (UHR ELR PPDU format) in Section 38.3.6 (UHR PPDU formats) of [11-24/1981r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1981-03-00bn-pdt-elr.docx), and in the latest TGbn draft (TGbn D0.1)

* + - Note: the PE value applies for UHR ELR PPDU.

*Reference docs: [*[*11-24/1841r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-1841-01-00bn-uhr-elr-design-open-topics.pptx)*]. SP result: No objection.*

Chair’s note: Ensured instructions are clear to the group and TGbn editor.

Move: Rui Cao Second: Wook Bong Lee

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 209 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2022r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2022-02-00bn-pdt-mac-bsr-enhancement.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2022r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-2022-02-00bn-pdt-mac-bsr-enhancement.docx)*]. SP result: No objection.*

Move: Frank Hsu Second: George Kuo

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + Motion 210

(Intentionally left blank)

* + **Motion 211 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2007r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2007-03-00bn-pdt-mac-p-edca.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2007r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-2007-03-00bn-pdt-mac-p-edca.docx)*]. SP result: No objection.*

Move: Dmitry Akhmetov Second: Kiseon Ryu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 212 (MAC)**

Move to add to the TGbn SFD the following:

* + - An AP transmitting a BSRP Trigger frame as an ICF which is addressed to at least a UHR non-AP STA that has enabled a dynamic unavailability operation mode, shall ensure that the UL Length field is set to a sufficient length so that the PPDU that contains a Multi-STA BA as an ICR, includes unavailability information in the Multi-STA BA in addition to other baseline requirements

*Reference docs: [*[*24/1464r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1464-02-00bn-discussion-on-icf.pptx)*]. SP result: No objection.*

Move: Hongwon Lee Second: Dongguk Lim

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 213 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/1992r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1992-03-00bn-pdt-phy-longer-ldpc-coding.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/1992r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1992-03-00bn-pdt-phy-longer-ldpc-coding.docx)*]. SP result: No objection.*

Move: Rethna Pulikkoonattu Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 214 (PHY)**

Move to add to the TGbn SFD the following:

* + - 1-bit indication in the per-user SIG field to resolve the BSS color for COBF transmissions.
      * The coding bit is re-purposed for this indication

*Reference docs: [*[*11-24/1829r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1829-02-00bn-uhr-sig-signaling-for-cobf.pptx)*,* [*11-24/1822r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx)*]. SP result: No objection.*

Move: Shengquan Hu Second: Jianhan Liu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 215 (PHY)**

Move to add to the TGbn SFD the following:

* + - The cyclic shift for pre-UHR modulated fields in UHR MU PPDU used for Co-BF transmission is based on local transmit chain index at each AP.

*Reference docs: [None]. SP result: No objection.*

Move: Juan Fang Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 216 (PHY)**

Move to add to the TGbn SFD the following:

* + - Mandatory support MCSs of QPSK with code rate 2/3; 16QAM with code rate 2/3; 16QAM with code rate 5/6; 256QAM with code rate 2/3.
      * Support for 256QAM with code rate 2/3 for 20MHz only devices is TBD.

*Reference docs: [*[*24/0469r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0469-00-00bn-new-mcss-for-11bn.pptx)*,* [*24/0753r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-0753-01-00bn-new-mcs-simulation-results.pptx)*]. SP result: No objection.*

Move: Jianhan Liu Second: Eugene Baik

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 217 (PHY)**

Move to add to the TGbn SFD the following:

* + - The maximum number of spatial streams transmitted by each AP in CSR is 4.

*Reference docs: [None]. SP result: No objection.*

Move: Jianhan Liu Second: Shengquan Hu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 218 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2017r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2017-00-00bn-pdt-phy-transmitter-block-diagram.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2017r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-2017-00-00bn-pdt-phy-transmitter-block-diagram.docx)*]. SP result: No objection.*

Move: Yusuke Asai Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 219 (PHY)**

Move to add to the TGbn SFD the following:

* + - For the COBF case, the information in the NDPA for the responding AP has a unified design for joint-NDP based sounding as well as cross-BSS section of sequential sounding.

*Reference docs: [*[*24/1822r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx)*]. SP result: No objection.*

Move: Sameer Vermani Second: Eugene Baik

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 220 (PHY)**

Move to add to the TGbn SFD the following:

* + - 2 BSS colors are indicated in the preamble of a COBF PPDU.
      * One BSS color for the sharing AP and another BSS color for the shared AP.

*Reference docs: [*[*24/1822r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx)*]. SP result: No objection.*

Move: Sameer Vermani Second: Rethna Pulikkoonattu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 221 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2032r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2032-01-00bn-pdt-phy-uhr-ppdu-format.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2032r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2032-01-00bn-pdt-phy-uhr-ppdu-format.docx)*]. SP result: No objection.*

Move: Dongguk Lim Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 222 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2033r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2033-03-00bn-pdt-phy-legacy-preamble.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2033r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-2033-03-00bn-pdt-phy-legacy-preamble.docx)*]. SP result: No objection.*

Move: Dongguk Lim Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + Motion 223

(Intentionally left blank)

* + **Motion 224 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2023r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2023-03-00bn-pdt-phy-overview-of-the-ppdu-encoding-process.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2023r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-2023-03-00bn-pdt-phy-overview-of-the-ppdu-encoding-process.docx)*]. SP result: No objection.*

Move: Junghoon Suh Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 225 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2034r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2034-01-00bn-pdt-phy-pilot-subcarriers.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2034r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2034-01-00bn-pdt-phy-pilot-subcarriers.docx)*]. SP result: No objection.*

Move: Chenchen LIU Second: Yan Xin

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 226 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2135r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2135-00-00bn-pdt-phy-null-subcarriers.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2135r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-2135-00-00bn-pdt-phy-null-subcarriers.docx)*]. SP result: No objection.*

Move: Bo Gong Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 227 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2009r6](https://mentor.ieee.org/802.11/dcn/24/11-24-2009-06-00bn-pdt-phy-uhr-sig.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2009r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-2009-06-00bn-pdt-phy-uhr-sig.docx)*]. SP result: No objection.*

Move: Mengshi Hu Second: Junghoon Suh

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 228 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2027r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2027-01-00bn-pdt-phy-service-interface.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2027r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2027-01-00bn-pdt-phy-service-interface.docx)*]. SP result: No objection.*

Move: Eugene Baik Second: Stephen McCann

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 229 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2049r6](https://mentor.ieee.org/802.11/dcn/24/11-24-2049-06-00bn-pdt-mac-m-ap-coordination-framework.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2049r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-2049-06-00bn-pdt-mac-m-ap-coordination-framework.docx)*]. SP result: No objection.*

Move: Arik Klein Second: Shimi Shilo

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 230 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/1762r23](https://mentor.ieee.org/802.11/dcn/24/11-24-1762-23-00bn-pdt-mac-npca.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs:[*[*11-24/1762r23*](https://mentor.ieee.org/802.11/dcn/24/11-24-1762-23-00bn-pdt-mac-npca.docx)*]. SP result: Find result.*

Move: Matthew Fisher Second: Liuming Lu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 231 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2005r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2005-01-00bn-pdt-phy-introduction.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2005r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2005-01-00bn-pdt-phy-introduction.docx)*]. SP result: No objection.*

Move: Eugene Baik Second: Lin Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 232 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2006r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2006-02-00bn-pdt-phy-capabilities-element.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2006r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-2006-02-00bn-pdt-phy-capabilities-element.docx)*]. SP result: No objection.*

Move: Eugene Baik Second: Lin Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 233 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2016r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2016-03-00bn-pdt-mac-power-save.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2016r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-2016-03-00bn-pdt-mac-power-save.docx)*]. SP result: 124Y, 27N, 55A.*

Move: Laurent Cariou Second: Matthew Fisher

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + Motion 234

(Intentionally left blank)

* + **Motion 235 (MAC)**

Move to add to the TGbn SFD the following:

* + - An AP MLD may optionally include a QoS Map element within the SCS Response frame transmitted by the AP MLD to update the DSCP-to-UP mapping for UL if the following conditions are true
      * the TID and the User Priority subfields of the Control Info field in the associated QoS Characteristics element are set to different values within 0~7
      * the AP MLD and the non-AP MLD supports the QoS map operation

*Reference docs: [*[*24/2123r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2123-01-00bn-discussion-on-hol-blocking-issue.pptx)*]. SP result: Super Majority.*

Move: Guogang Huang Second: Abdel Ajami

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 236 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2024r0](https://mentor.ieee.org/802.11/dcn/24/11-24-2024-00-00bn-pdt-phy-uhr-stf.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2024r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-2024-00-00bn-pdt-phy-uhr-stf.docx)*]. SP result: No objection.*

Move: Eunsung Park Second: Dongguk Lim

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 237 (PHY)**

Move to add to the TGbn SFD the following:

* + - For 160 MHz and 320 MHz PPDUs, in only the non-punctured primary 80 MHz subblock, the following distribution bandwidth mode is allowed for DRU
      * 20 MHz + 20 MHz + 40 MHz (or 40 MHz + 20 MHz + 20 MHz)

*Reference docs: [*[*25/100r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0100-00-00bn-some-open-issues-on-dru.pptx)*]. SP result: No objection.*

Move: Lin Yang Second: Shengquan Hu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 238 (PHY)**

Move to add to the TGbn SFD the following:

* + - For distributed transmission, apply global CSD to UHR-STF only, and UHR-LTF and data still apply local per stream CSD, just like RRU

*Reference docs: [*[*25/100r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0100-00-00bn-some-open-issues-on-dru.pptx)*]. SP result: No objection.*

Move: Lin Yang Second: Shengquan Hu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 239 (PHY-PDT)**

Move to add the following note into the TGbn D0.1, under the section “38.3.2.x RU and MRU restrictions for 20 MHz operation”

“NOTE – When a 20 MHz operating STA participates in an 80 MHz or wider UHR TB PPDU using 20 MHz distribution bandwidth, the TX LO leakage of the STA might interfere with some of the data subcarriers within the 20 MHz distribution bandwidth such that for some DRUs in that 20MHz DBW performance of high MCS may be significantly degraded.”

*Reference docs: [*[*25/100r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0100-00-00bn-some-open-issues-on-dru.pptx)*]. SP result: No objection.*

Move: Lin Yang Second: Shengquan Hu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 240 (PHY)**

Move to add to the TGbn SFD the following:

* + - 11bn supports indicating a 60 MHz DBW using a value of 3 in the 2-bit DBW indication subfield within the UHR variant User Info field of a Trigger Frame in the case of DRU

*Reference docs: [*[*25/0129r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0129-00-00bn-dru-distribution-bw-indication-in-uhr-trigger-frame.pptx)*]. SP result: ??.*

Move: Mahmoud Hasabelnaby Second: Yan Xin

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 241 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2035r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2035-01-00bn-pdt-phy-uhr-ltf.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2035r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2035-01-00bn-pdt-phy-uhr-ltf.docx)*]. SP result: No objection.*

Move: Ross J. Yu Second: Jianhan Liu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 242 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2011r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2011-01-00bn-pdt-phy-timing-related-parameters.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2011r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2011-01-00bn-pdt-phy-timing-related-parameters.docx)*]. SP result: No objection.*

Move: Mengshi Hu Second: Lin Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 243 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2012r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2012-03-00bn-pdt-phy-packet-extension.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2012r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-2012-03-00bn-pdt-phy-packet-extension.docx)*]. SP result: No objection.*

Move: Mengshi Hu Second: Lin Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 244 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2031r5](https://mentor.ieee.org/802.11/dcn/24/11-24-2031-05-00bn-pdt-mac-coordinated-spatial-reuse.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2031r5*](https://mentor.ieee.org/802.11/dcn/24/11-24-2031-05-00bn-pdt-mac-coordinated-spatial-reuse.docx)*]. SP result: No objection.*

Move: Jason Yuchen Guo Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 245 (PHY)**

Move to add to the TGbn SFD the following:

* + - The Interference Mitigation feature is only defined with LDPC

*Reference docs: [*[*24/1785r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1785-02-00bn-interference-mitigation-pilots-definitions.pptx)*]. SP result: No objection.*

Move: Shimi Shilo Second: Shengquan Hu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 246 (PHY)**

Move to add to the TGbn SFD the following:

* + - For each bandwidth, there is a fixed number of IM pilots (value TBD)

*Reference docs: [*[*24/1785r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1785-02-00bn-interference-mitigation-pilots-definitions.pptx)*]. SP result: No objection.*

Move: Shimi Shilo Second: Genadiy Tsodik

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 247 (PHY)**

Move to add to the TGbn SFD the following:

* + - Within any transmission that uses IM pilots, they are used in every data OFDM symbol and in the same corresponding subcarriers positions, for a given BW

*Reference docs: [*[*24/1785r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1785-02-00bn-interference-mitigation-pilots-definitions.pptx)*]. SP result: No objection.*

Move: Shimi Shilo Second: Oded Redlich

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 248 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-25/88r3](https://mentor.ieee.org/802.11/dcn/25/11-25-0088-03-00bn-pdt-mac-p2p.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-25/88r3*](https://mentor.ieee.org/802.11/dcn/25/11-25-0088-03-00bn-pdt-mac-p2p.docx)*]. SP result: No objection.*

Move: Rubayet Shafin Second: Vishnu Ratnam

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 249 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2042r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2042-01-00bn-pdt-phy-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs:[*[*11-24/2042r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2042-01-00bn-pdt-phy-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame.docx)*]. SP result: No objection.*

Move: Juan Fang Second: Lin Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 250 (PHY)**

Move to add to the TGbn SFD the following:

* + - 11bn defines 5 bit Recommended CSI MCS subfield in the 2nd Special STA Info field of the NDPA targeted for OBSS AP in the UHR CoBF sounding
      * It is set from B20 to B24 in the 2nd Special STA Info field
      * The 5-bit MCS level includes “No Recommendation” MCS entry in addition to the UHR MCS entries
      * Index 31 indicates “No Recommendation”
      * The Recommended CSI MCS is for the OBSS AP to set the MCS in the BFRP trigger frame sent in the future Cross-BSS sounding / Joint Sounding sequence
      * When there are multiple OBSS STAs to feedback the CSI report, the Recommended CSI MCS can be set to the lowest MCS among all those OBSS STAs

*Reference docs: [*[*25/0078r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0078-00-00bn-a-dru-design-approach-for-20-mhz.pptx)*]. SP result: No objection.*

Move: Junghoon Suh Second: Mahmoud Hasabelnaby

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 251 (PHY)**

Move to add to the TGbn SFD the following:

* + - In the UHR MU PPDU in 11bn, the PE requirements of UEQM with the constellation order x of the first spatial stream is equal to the PE requirements of EQM with the constellation order x

*Reference docs: [*[*25/0128r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0128-00-00bn-discussion-on-pe-requirement-for-ueqm.pptx)*]. SP result: No objection.*

Move: Mengshi Hu Second: Shimi Shilo

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 252 (PHY)**

Move to add to the TGbn SFD the following:

* + - 11bn defines the following modes for co-SR transmission:
    - Mode 1: trigger + same L-SIG contents, could be different U-SIG contents.
      * For UHR+EHT, or EHT+UHR or EHT+EHT co-SR transmission.
      * Provided no changes to non-UHR EHT non-AP STAs are needed.
    - Mode 2: Tigger + same L-SIG contents + same U-SIG contents
      * For UHR+UHR co-SR transmission.
    - For all modes, the two PPDUs will start and end at the same time.
    - UHR PPDU for co-SR transmission will be used for either mode 1 or mode 2 when UHR transmission exists.
      * There exists an indication in U-SIG field to indicate the UHR PPDU is a UHR PPDU for co-SR transmission.

*Reference docs: [*[*11-25/0104r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0104-00-00bn-co-sr-preamble-signaling.pptx)*]. SP result: 41Y, 7N, 20A.*

Move: Ross Jian Yu Second: Jason Y. Guo

* + - Discussion: None.

**Result: Approved with unanimous consent.**

The following Motions (Motions 253 to 260) are from the passed SPs on the early timing of this session.

* + **Motion 253 (Joint)**

Move to add to the TGbn SFD the following:

* + - In Coordinated Spatial Reuse:
      * A sharing AP that intends to initiate a Coordinated Spatial Reuse transmission shall transmit a Trigger frame to initiate concurrent CSR transmissions with one (whether to allow more is TBD) other AP within its obtained TXOP BW;
      * When all addressed non-AP STAs are UHR STAs, the concurrent CSR transmission starts SIFS after the Trigger frame
      * Which trigger frame is TBD

*Reference docs: [*[*11-23/1868*](https://mentor.ieee.org/802.11/dcn/23/11-23-1868-02-00bn-coordinated-spatial-reuse-design.pptx)*,* [*11-24/1092*](https://mentor.ieee.org/802.11/dcn/24/11-24-1092-00-00bn-multi-ap-coordinated-concurrent-transmission-protocol.pptx)*]. SP result: No Objection.*

Move: Jason Y Guo Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 254 (Joint)**

Move to add to the TGbn SFD the following:

* + - In Coordinated Spatial Reuse, the following information shall be carried in the Trigger frame that initiates concurrent CSR transmissions of the 2 APs
      * The duration of the data PPDU transmitted by the sharing AP and of the data PPDU transmitted by the shared AP, which are the same, after the Trigger frame
      * Other parameters TBD

*Reference docs: [*[*11-23/1868*](https://mentor.ieee.org/802.11/dcn/23/11-23-1868-02-00bn-coordinated-spatial-reuse-design.pptx)*,* [*11-24/1092*](https://mentor.ieee.org/802.11/dcn/24/11-24-1092-00-00bn-multi-ap-coordinated-concurrent-transmission-protocol.pptx)*]. SP result: No Objection.*

Move: Jason Y Guo Second: Yunbo Li

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 255 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/1881r7](https://mentor.ieee.org/802.11/dcn/24/11-24-1881-07-00bn-pdt-mac-seamless-roaming.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/1881r7*](https://mentor.ieee.org/802.11/dcn/24/11-24-1881-07-00bn-pdt-mac-seamless-roaming.docx)*]. SP result: 135Y, 18N, 39A.*

Move: Duncan Ho Second: Mike Montemurro

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 256 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2040r9](https://mentor.ieee.org/802.11/dcn/24/11-24-2040-09-00bn-pdt-mac-coexistence.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2040r9*](https://mentor.ieee.org/802.11/dcn/24/11-24-2040-09-00bn-pdt-mac-coexistence.docx)*]. SP result: No objection*

Move: Laurent Cariou Second: Qi Wang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 257 (MAC)**

Move to add to the TGbn SFD the following:

* + - Define an Enhanced BSR Control subfield in A-ctrl to report a larger per TID queue size
      * The Enhanced BSR Control subfield consists of at least a TID subfield and an unsigned value subfield to report the larger queue size (QS) of the TID
      * The reported QS is equal to 2147328 Octets + the value reported in the Queue Size field of the defined Enhanced BSR Control subfield
      * When the QoS Control with the same TID as the Enhanced BSR Control subfield is present in the same MPDU, the QS subfield of the QoS Control is set to value 254
      * TBD if the Enhanced BSR Control subfield shares the control ID with other Control subfield proposals in UHR
      * Note: The baseline rules which regulate HT control field to be the same in all MPDUs of the same frame type in an A-MPDU do not change
      * Note: Encoding of the baseline QS subfield in QoS Control does not change.
      * Note: Length of the Enhanced BSR Control subfield allows to aggregate the UPH in the same A-Control subfield

*Reference docs: [*[*11-24/0963*](https://mentor.ieee.org/802.11/dcn/24/11-24-0963-03-00bn-enhancement-of-bsr-follow-up.pptx)*,* [*11-23/2007*](https://mentor.ieee.org/802.11/dcn/24/11-24-2007-03-00bn-pdt-mac-p-edca.docx)*]. SP result: No objection*

Move: Frank Hsu Second: Stephen McCann

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 258 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2068r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2068-01-00bn-pdt-mac-uhr-mac-operation-element.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2068r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2068-01-00bn-pdt-mac-uhr-mac-operation-element.docx)*]. SP result: No objection.*

Move: Ming Gan Second: Abdel Ajami

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 259 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2069r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2069-01-00bn-pdt-mac-uhr-mac-capabilities-in-uhr-caps-ie.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2069r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2069-01-00bn-pdt-mac-uhr-mac-capabilities-in-uhr-caps-ie.docx)*]. SP result: No objection.*

Move: Ming Gan Second: Abdel Ajami

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 260 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2020r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2020-01-00bn-pdt-for-uhr-mac-introduction-section.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2020r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2020-01-00bn-pdt-for-uhr-mac-introduction-section.docx)*]. SP result: No objection*

Move: George Cherian Second: Abdel Ajami

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* Recessed at 10:00.

# January 15th, Wednesday (08:00-10:00 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0158-00-00bn-minutes-for-tgbn-phy-ad-hoc-in-january-2025-interim.docx>

# January 15th, Wednesday (10:30-12:30 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0158-00-00bn-minutes-for-tgbn-phy-ad-hoc-in-january-2025-interim.docx>

# January 15th, Wednesday (16:00-18:00 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: <https://mentor.ieee.org/802.11/dcn/25/11-25-0158-00-00bn-minutes-for-tgbn-phy-ad-hoc-in-january-2025-interim.docx>

# January 16th, Thursday (08:00-10:00 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: (cancelled)

# January 16th, Thursday (10:30-12:30 JST)

* Split MAC and PHY sessions.
  + MAC: <https://mentor.ieee.org/802.11/dcn/25/11-25-0145-01-00bn-tgbn-mac-ad-hoc-jan-2025-kobe-minutes.docx>
  + PHY: (cancelled)

# January 16th, Thursday (16:00-18:00 JST) - Joint

* The Chair, Alfred Asterjadhi (Qualcomm), calls the meeting to order.
* Yusuke Asai (NTT) is serving as the Secretary.
* Registration information
  + The chair announced that registration is needed to attend this meeting.
* Meeting protocol
  + The chair announced that everyone is required to log in WebEx to vote.
  + Please ensure that the following information is listed correctly when joining the call:
    - "[voter status] First Name Last Name (Affiliation)"
* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please record your attendance during the conference call by using the IMAT system:
    - 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802 Wireless Interim/Plenary Session” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbn conference call that you are attending.
  + If you are unable to record the attendance via [IMAT,](https://imat.ieee.org/attendance) then please send an e-mail to:
    - Joint: Yusuke Asai ([yusuke.asai@ntt.com](mailto:yusuke.asai@ntt.com)) & Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
    - PHY: Sigurd Schelstraete ([sschelstraete@maxlinear.com](mailto:sschelstraete@maxlinear.com)), Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com)), and Dongguk Lim ([dongguk.lim@lge.com](mailto:dongguk.lim@lge.com))
    - MAC: Xiaofei Wang ([xiaofei.wang@interdigital.com](mailto:xiaofei.wang@interdigital.com)), and Srinivas Kandala ([srini.k1@samsung.com](mailto:srini.k1@samsung.com)), Jeongki Kim ([jeongki.kim.ieee@gmail.com](mailto:jeongki.kim.ieee@gmail.com))
* IEEE 802 and 802.11 IPR policy and procedure
  + Patent Policy: Ways to inform IEEE:
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair.

**Nobody spoke/wrote up.**

* + Copyright Policy: Participants are advised that
    - IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
    - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

**Copyright Policy was presented.**

* + **Patent, Participation, Copyright and policy related subclause:** Please refer to the agenda document ([11-24/2074r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2074-16-00bn-tgbn-jan-2025-meeting-agenda.pptx)6.)
* Agenda
  + Chair reviewed proposed agenda found in [11-24/2074r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2074-16-00bn-tgbn-jan-2025-meeting-agenda.pptx)6.
  + Discussion: None.
  + The proposed agenda was approved with unanimous consent.
* PDTs
  + [11-24/2026r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2026-04-00bn-pdt-joint-mlme-sap.docx): PDT-Joint-MLME-SAP Yan Li (ZTE)

(No Q+A)

**SP:** to apply the proposed change in [11-24/2026r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2026-04-00bn-pdt-joint-mlme-sap.docx) in the TGbn D0.1.

**Result: No objection.**

* + [11-24/2030r8](https://mentor.ieee.org/802.11/dcn/24/11-24-2030-08-00bn-pdt-mac-coordinated-beamforming.docx): PDT-MAC-Coordinated-Beamforming Jason Y. Guo (Huawei)

**SP:** to apply the proposed change in [11-24/2030r8](https://mentor.ieee.org/802.11/dcn/24/11-24-2030-08-00bn-pdt-mac-coordinated-beamforming.docx) to the TGbn D0.1.

**Result: No objection.**

* + [11-24/2029r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2029-01-00bn-pdt-joint-mib.docx): PDT-Joint-MIB Li Quan (ZTE)

**SP:** to apply the proposed change in [11-24/2029r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2029-01-00bn-pdt-joint-mib.docx) to the TGbn D0.1.

**Result: No objection.**

* + [11-24/2133r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2133-03-00bn-pdt-joint-trigger-frame.docx): PDT Joint Trigger Frame Alice Chen (Qualcomm)

**SP:** to apply the proposed change in [11-24/2133r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2133-04-00bn-pdt-joint-trigger-frame.docx) to the TGbn D0.1.

* + - Discussion:

C: We need to confirm the coexistence document. We are using value zero to indicate IFCS presence and one to indicate non-presence.

A: One year ago, it is just like the DRU/RU indication. Originally, the 7 bits were EHT reserved and now we try to fit those bits to for particular meaning, for some DRU indication or IFCS present. Other reserved bits like B26 B53 and even B63 are set to zero.

C: I think there is no conflict with the other document and no problem.

C: If there is a conflict between two approved motions, the editor highlight with an “Editor’s note” that mention that the editor was instructed twice in a conflicting manner.

C: Regarding common user info field. Why do we just mention HE and the UHR RTF and not mentioned the EHT here?

A: There are different figures. There is one figure for HE variant common info field, one for HET variant and this is the last one for UHR variant. The PHY version identifier is set to one to indicate UHR. So, essentially, UHR STAs will interpret this UHR variant common info field.

C: OK, but it should be that we have this you retry after maybe we may need to mention EHT variant.

A: Because this is UHR variant, you don’t have to call out HE.

A: I think better to have this discussion later because they are actually many places. But, in the UHR variant trigger frame, this is the only common info field will be there.

C: I think the field name of IFCS present does not match with the value. Maybe IFCS absent or something is better.

C: For B54, you should add a TBD because that depends on your table. In the table, you put the UHR as a TBD. So, to be consistent, B54 should also be TBD. If we don’t have TBD, then this bit would be always zero.

A: I think that bit is still sometimes indicate HE.

C: For this one, I think UHR variant is for UHR PPDU, then in that case with that bit we set it to UHR.

C: You don’t even need to indicate that is the point. Only it will be a fixed value, it will not change between zero and one meaning if we agree only user zero combination.

C: Adding a PHY version column to Table 9-46a makes the table easier to read.

A: I think we can resolve that in common resolution.

C: Instead of saying IFCS present, add flag at the end of IFCS present so that it kind of decouples the value of the bits to the presence.

C: In the UHR common part, you put a few TBD to the uplink spatial reuse and before uplink spatial reuse. Please just keep that consistent with the other place.

(The presenter reflected these changes in [11-24/2133r3](https://mentor.ieee.org/802.11/dcn/24/11-24-2133-03-00bn-pdt-joint-trigger-frame.docx) and uploaded as [11-24/2133r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2133-04-00bn-pdt-joint-trigger-frame.docx). Then the straw poll for r4 was conducted.)

**Result: No objection.**

* Motions
  + The following motions were conducted according to the motion list ([11-25/0014r](https://mentor.ieee.org/802.11/dcn/25/11-25-0014-06-00bn-tgbn-motions-list-part-2.pptx)6).
  + The motions 290 to 29x were added during this session.
  + The overall result is shown on the revised motion list ([11-25/0014r7](https://mentor.ieee.org/802.11/dcn/25/11-25-0014-07-00bn-tgbn-motions-list-part-2.pptx)).
  + **Motion 261 (MAC)**

Move to add to the TGbn SFD the following:

* + - Include the CoEx unavailability information in a new “Special User Info” field with AID12 set to 2008 of the BSRP Trigger frame when used as an ICF to report CoEx unavailability information
      * A feedback type field (name TBD) (4 bits field – B12 to B15 of the “Special User Info” field) which is set to 0 to indicate that the “Special User Info” field is carrying CoEx unavailability information
      * CoEx unavailability information includes two parameters: Unavailability Target Start Time and Unavailability Duration (these fields are already defined)

*Reference docs: [*[*11-24/1558*](https://mentor.ieee.org/802.11/dcn/24/11-24-1558-02-00bn-in-device-coexistence-follow-up.pptx)*, 11-24/1464r3\*,* [*11-24/494r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-0494-02-00bn-in-device-coexistence-follow-up.pptx)*]. SP result: No objection.*

(\*Note from the secretary: The 11-24/1464r3 does not exist on the document server as of the 12th, February, and thus it is seemed to be a typo of [11-24/1464r2](https://mentor.ieee.org/802.11/dcn/24/11-24-1464-02-00bn-discussion-on-icf.pptx).)

Move: Sherief Helwa Second: Abdel Ajami

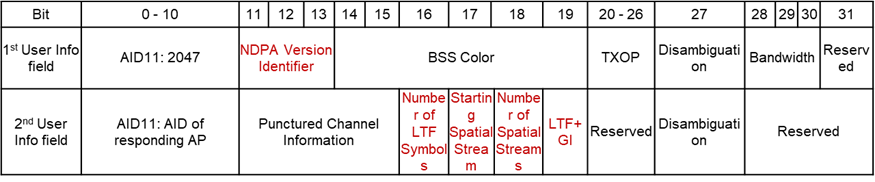
* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 262 (Joint)**

Move to add to the TGbn SFD the following:

* + - When the initiating AP requests the responding AP to join the CoBF sounding, the red subfields in the first and second User Info fields of the NDPA shall be set as follows.
      * NDPA Version Identifier is set to 0 for CoBF sounding in UHR
      * Number of LTF symbols is set to 0 and 1 for 4 and 8 symbols, respectively
      * Starting Spatial Stream is set to 0 and 1 for the 1st and 5th streams, respectively
      * Number of spatial streams is set to 0 and 1 for the 4 and 8 streams, respectively
      * LTF+GI is set to 0 and 1 for 2x LTF+0.8us GI and 2x LTF+1.6us GI, respectively
      * B20-26, which are shown as Reserved in the second User Info field, can be used in the future



*Reference docs: [*[*11-24/1822r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-1822-04-00bn-cobf-design-for-uhr.pptx)*,* [*11-24/1835r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1835-03-00bn-backward-compatible-sounding-for-cobf.pptx)*,* [*11-24/1865r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1865-03-00bn-universal-sounding-and-ndpa-signaling.pptx)*]. SP result: No objection.*

Move: Sameer Vermani Second: You-Wei Chen

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 263 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/1977r6](https://mentor.ieee.org/802.11/dcn/24/11-24-1977-06-00bn-pdt-phy-u-sig.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/1977r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-1977-06-00bn-pdt-phy-u-sig.docx)*]. SP result: No objection.*

Move: Alice Chen Second: Ross J. Yu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 264 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2043r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2043-01-00bn-pdt-phy-receiver-specification.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs:[*[*11-24/2043r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2043-01-00bn-pdt-phy-receiver-specification.docx)*]. SP result: No objection.*

Move: Juan Fang Second: Sameer Vermani

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 265 (MAC)**

Move to add to the TGbn SFD the following:

* + - As a part of M-AP coordination agreement procedure, an AP may assign an AP ID to another AP with the following constraints:
      * The AP ID is used for the AP to identify another AP as a coordinated AP, when necessary.
      * The AP ID field has the same size and the field value has a range as defined in AID field (see 9.4.1.8)
      * The AP shall ensure that the AP ID value is not assigned by the AP or by its affiliated MLD to any other STA (e.g., STA is an associated non-AP STA, an unassociated non-AP STA that has been allocated a RSID, or any other coordinated AP), or a non-AP MLD that is associated with the AP MLD
      * It's TBD whether the AP ID value is greater than 2^n where n is the maximum of the value carried in the MBSSID Indicator (n) field of the Multiple BSSID element for any AP affiliated with the AP MLD that belongs to a multiple BSSID set

*Reference docs: [*[*11-23/1837r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1837-02-00bn-uhr-ndpa-signaling.pptx)*,*[*11-24/1389r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-1839-00-00bp-amp-sta-access.pptx)*,* [*11-24/1217r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1217-02-00bn-multi-ap-coordination-setup-scheme.pptx)*,* [*11-24/0842r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0842-00-00bn-multi-ap-set-configuration-for-c-tdma.pptx)*,* [*11-24/0843r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0843-00-00bn-some-details-on-txop-sharing-in-c-tdma.pptx)*,* [*11-24/1016r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-1016-02-00bn-c-tdma-follow-up-additional-details-on-framing-sequence.pptx)*,* [*11-24/1017r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-1017-00-00bn-mechanism-for-txop-return-in-c-tdma.pptx)*,* [*11-23/1895r2*](https://mentor.ieee.org/802.11/dcn/23/11-23-1895-02-00bn-c-tdma-frame-sequence.pptx)*,* [*11-24/0423r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0423-00-00bn-nav-rules-in-c-tdma.pptx)*,* [*11-24/1225r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-1225-00-00bn-initial-control-frames-in-c-tdma.pptx)*,* [*24/1220r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-1220-00-00bn-a-framework-for-coordinated-access-points.pptx)*,* [*25/0007r2*](https://mentor.ieee.org/802.11/dcn/25/11-25-0007-02-00bn-ap-id-design-in-sounding.pptx)*]. SP result: No objection.*

Move: Jay Yang Second: Xiangxin Gu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 266 (PHY-PDT)**

Move to incorporate the proposed text changes in [11-24/2015r6](https://mentor.ieee.org/802.11/dcn/24/11-24-2015-06-00bn-pdt-phy-cobf.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2015r6*](https://mentor.ieee.org/802.11/dcn/24/11-24-2015-06-00bn-pdt-phy-cobf.docx)*]. SP result: No objection.*

Move: Ron Porat Second: Dongguk Lim

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 267 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2056r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2056-01-00bn-pdt-mac-twt-sp-management.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2056r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2056-01-00bn-pdt-mac-twt-sp-management.docx)*]. SP result: No objection.*

Move: Kumail Haider Second: George Cherian

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 268 (MAC)**

Move to amend the text below in the TGbn SFD:

* + - Do you agree that a TXOP owner AP shall announce its intention of sharing a portion of the time resource of its TXOP for C-TDMA operation, in an Initial Control frame (exact ICF and name TBD) sent at the beginning of the TXOP and that the frame polls AP(s) with whom it may share the TXOP to determine their interest?
      * A TXOP owner AP that intends to share its TXOP is referred to as a sharing AP.
      * A candidate AP identified (polled) in the Initial Control frame is referred to as a polled AP.
      * The Duration field of the frame is set to the length of time required to transmit the solicited response frame plus one SIFS.
      * Whether or not the sharing AP is mandated to send the Initial Control frame that announces that intention is TBD.

*Reference docs: [*[*11-23/1895*](https://mentor.ieee.org/802.11/dcn/23/11-23-1895-02-00bn-c-tdma-frame-sequence.pptx)*,* [*11-23/1912r2*](https://mentor.ieee.org/802.11/dcn/23/11-23-1912-02-00bn-coordinated-tdma-procedure.pptx)*,* [*11-24/0423*](https://mentor.ieee.org/802.11/dcn/24/11-24-0423-00-00bn-nav-rules-in-c-tdma.pptx)*,* [*11-24/1016,*](https://mentor.ieee.org/802.11/dcn/24/11-24-1016-03-00bn-c-tdma-follow-up-additional-details-on-framing-sequence.pptx)[*11-24/1017*](https://mentor.ieee.org/802.11/dcn/24/11-24-1017-00-00bn-mechanism-for-txop-return-in-c-tdma.pptx)*,* [*11-24/1225*](https://mentor.ieee.org/802.11/dcn/24/11-24-1225-01-00bn-initial-control-frames-in-c-tdma.pptx)*]. SP result: No objection.*

Move: Sanket Kalamkar Second: GeonHwan Kim

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 269 (MAC)**

Move to add to the TGbn SFD the following:

* + - The ICF (polling frame) sent as part of Co-TDMA operation shall be a BSRP Trigger frame

*Reference docs: [*[*11-24/1225*](https://mentor.ieee.org/802.11/dcn/24/11-24-1225-01-00bn-initial-control-frames-in-c-tdma.pptx)*,* [*11-24/0843r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0843-00-00bn-some-details-on-txop-sharing-in-c-tdma.pptx)*]. SP result: No objection.*

Move: Sanket Kalamkar Second: Kumail Haider

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 270 (MAC)**

Move to add to the TGbn SFD the following:

* + - As part of Co-TDMA operation, a poll response from a polled AP solicited by the ICF shall be carried in an M-BA frame

*Reference docs: [*[*11-24/1225*](https://mentor.ieee.org/802.11/dcn/24/11-24-1225-01-00bn-initial-control-frames-in-c-tdma.pptx)*,* [*11-24/0843r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0843-00-00bn-some-details-on-txop-sharing-in-c-tdma.pptx)*]. SP result: No objection.*

Move: Sanket Kalamkar Second: GeonHwan Kim

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 271 (MAC)**

Move to add to the TGbn SFD the following:

* + - In response to BSRP Trigger frame as an ICF transmitted by a non-AP STA as the TXOP holder, an AP transmits a Multi-STA BlockAck frame
      * Whether Block Ack Starting Sequence Control subfield and Block Ack Bitmap subfield are present or not is TBD
      * Values of Ack Type and TID are TBD

*Reference docs: [*[*24/1464*](https://mentor.ieee.org/802.11/dcn/24/11-24-1464-02-00bn-discussion-on-icf.pptx)*]. SP result: No objection.*

Move: Hongwon Lee Second: Insun Jang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 272 (MAC)**

Move to add to the TGbn SFD the following:

* + - Define HIP EDCA in UHR where a STA with Low Latency traffic may be allowed, based on TBD conditions, to send a Defer Signal (it is TBD whether CTS or RTS is used) to start a protected short contention for pending LL data
      * Conditions to be allowed to send a Defer Signal is TBD
      * STA in HiP EDCA always use RTS/CTS as initial frame exchange and retry.
      * Duration of protected short contention is TBD.
      * Access parameters (AIFSN, CW and the expansion rules) used to transmit the Defer Signal are TBD. The retry count where the Defer Signal is allowed to be sent is TBD
      * Contention parameters for the protected short contention are TBD. The STAs that transmitted a Defer Signal but did not win the protected short contention will initiate a new retry.
      * Low Latency traffic is treated as AC\_VO traffic. Other cases are TBD.
      * The solution would provide control on the degree of collisions that may occur while using it and, allows for autonomous randomness or/and controlled by the AP
      * No new mandatory synchronization requirement on STA side
      * HIP EDCA is used by the STAs in a BSS only when this feature is enabled by the AP

*Reference docs: [*[*24/1144r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-1144-01-00bn-hip-edca-proposal-follow.pptx)*,* [*24/0864r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-0864-01-00bn-edca-enhancement-for-low-latency-traffic.pptx)*,* [*24/1193r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-1193-01-00bn-edca-for-high-priority-access.pptx)*]. SP result: 150Y, 14N, 70A.*

Move: Dmitry Akhmetov Second: Kiseon Ryu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 273 (MAC)**

Move to add to the TGbn SFD the following:

* + - TGbn defines or improves an existing mechanism so that a non-AP STA that is a TXOP responder can indicate its buffered low latency traffic needs (for traffic from the TxOP responder to the TxOP Holder) in a control response frame. The TXOP holder should consider the indication in determining subsequent actions. Subsequent actions related to this indication are out of the scope of the standard.
      * Note: whether an AP can Indicate its low latency needs is TBD

*Reference docs: [*[*24/0389r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0389-00-00bn-preemption-for-low-latency.pptx)*,* [*24/168r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0168-00-00bn-txop-preemption-in-11bn.pptx)*,*[*24-0416/r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-0416-01-00bn-target-sta-prioritization-in-edca-based-preemption-mechanisms-during-a-dl-txop.pptx)*,* [*24-0442/r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-0442-03-00bn-latency-reduction-for-immediate-real-time-application-traffic-transmission.pptx)*,* [*24-1195/r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-1195-01-00bn-indication-techniques-for-urgent-traffic.pptx)*,* [*23/885*](https://mentor.ieee.org/802.11/dcn/23/11-23-0885-00-0uhr-considerations-on-qos-enhancement-in-uhr.pptx)*,* [*24/264*](https://mentor.ieee.org/802.11/dcn/24/11-24-0264-01-00bn-timing-information-sharing-for-next-generation-wlans.pptx)*,* [*23/1886*](https://mentor.ieee.org/802.11/dcn/23/11-23-1886-03-00bn-preemption-techniques-to-meet-low-latency-ll-targets.pptx)*,* [*24/1156*](https://mentor.ieee.org/802.11/dcn/24/11-24-1156-00-00bn-initial-control-frame-exchange-for-low-latency.pptx)*,* [*24/1871r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-1871-01-00bn-erd-enhanced-reverse-direction-protocol-to-support-txop-sharing-and-low-latency-traffic-exchange.pptx)*,* [*24/1074*](https://mentor.ieee.org/802.11/dcn/24/11-24-1074-00-00bn-preemption-txop.pptx)*,* [*23/1909r1*](https://mentor.ieee.org/802.11/dcn/23/11-23-1909-01-00bn-transmission-method-of-low-latency-traffic.pptx)*,* [*24/131r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-0131-00-00bn-signaling-of-preemption.pptx)*,* [*24/1156r0*](https://mentor.ieee.org/802.11/dcn/24/11-24-1156-00-00bn-initial-control-frame-exchange-for-low-latency.pptx)*]. SP result: 192Y, 10N, 29A.*

Move: Mohamed Abouelseoud Second: Dibakar Das

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 274 (MAC)**

Move to add to the TGbn SFD the following:

* + - Define a mechanism as part of the procedure of time sharing during a TXOP (e.g. C-TDMA, TXS, …) to support fairness to neighboring STAs (APs and non-APs)?
      * Exact mechanism is TBD

*Reference docs: [*[*11-24-93*](https://mentor.ieee.org/802.11/dcn/24/11-24-0093-03-00bn-nav-setting-for-coordinated-tdma.pptx)*,* [*11-25-86r0*](https://mentor.ieee.org/802.11/dcn/25/11-25-0086-00-00bn-fairness-issue-in-co-tdma.pptx)*]. SP result: 144Y/27N/42A.*

Move: Dibakar Das Second: Si-Chan Noh

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 275 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/1978r3](https://mentor.ieee.org/802.11/dcn/24/11-24-1978-03-00bn-detailed-text-proposal-on-low-latency-indication.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs:[*[*11-24/1978r3*](https://mentor.ieee.org/802.11/dcn/24/11-24-1978-03-00bn-detailed-text-proposal-on-low-latency-indication.docx)*]. SP result: No objection on R2.*

Move: Mohamed Abouelseoud Second: Anuj Batra

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 276 (MAC)**

Move to add to the TGbn SFD the following:

UHR should allow more than two TIDs to be mapped to high priority ACs (i.e., VO or VI)?

* + - Up to one TID for each AC currently assigned to BE and BK are remapped.
    - Those TIDs may be used dynamically (e.g., following an SCS flow setup).

*Reference docs: [*[*24/463r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-0463-01-00bn-qos-enhancements-for-uhr.pptx)*,* [*24/1899*](https://mentor.ieee.org/802.11/dcn/24/11-24-1899-00-00bn-uhr-scs-enhancements.pptx)*,* [*23/0069*](https://mentor.ieee.org/802.11/dcn/23/11-23-0069-01-0uhr-considerations-on-latency-improvement.pptx)*,* [*24/2123*](https://mentor.ieee.org/802.11/dcn/24/11-24-2123-01-00bn-discussion-on-hol-blocking-issue.pptx)*]. SP result: No objection.*

Move: Dibakar Das Second: Abdel Ajami

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 277 (MAC)**

Move to add to the TGbn SFD the following:

* + - As part of Co-TDMA operation, TGbn defines a mechanism for a Co-TDMA sharing AP to transmit to a Co-TDMA coordinated AP an indication of whether the Co-TDMA coordinated AP is to return the remainder of the allocated time (if any) back to the Co-TDMA sharing AP.
      * How to signal the indication is TBD
      * Note: This mechanism is to be enabled only if the Co-TDMA sharing AP is capable of receiving the TXOP return.

*Reference docs: [*[*24/1250*](https://mentor.ieee.org/802.11/dcn/24/11-24-1250-01-00bn-discussion-on-txop-allocation-in-c-tdma.pptx)*,* [*24/1701*](https://mentor.ieee.org/802.11/dcn/24/11-24-1701-02-00bn-nav-protection-for-c-tdma-follow-up.pptx)*,* [*24/0843*](https://mentor.ieee.org/802.11/dcn/24/11-24-0843-00-00bn-some-details-on-txop-sharing-in-c-tdma.pptx)*,* [*24/1017*](https://mentor.ieee.org/802.11/dcn/24/11-24-1017-00-00bn-mechanism-for-txop-return-in-c-tdma.pptx)*]. SP result: No objection.*

Move: Serhat Erkucuk Second: Insun Jang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 278 (MAC)**

Move to add to the TGbn SFD the following:

* + - For UHR-variant Trigger frame:
      * iFCS present: 1 bit field in UHR-variant Common Info field
      * TBD for HE/EHT-variant

*Reference docs: [*[*11-24/544*](https://mentor.ieee.org/802.11/dcn/24/11-24-0544-01-00bn-power-save-protocols-for-uhr-follow-up.pptx)*,* [*11-24/1129*](https://mentor.ieee.org/802.11/dcn/24/11-24-1129-01-00bn-discussion-on-intermediate-fcs-signaling.pptx)*]. SP result: No objection.*

Move: Sherief Helwa Second: SunHee Baek

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 279 (MAC)**

Move to add to the TGbn SFD the following:

* + - 11bn defines a Seamless Mobility Domain (SMD, exact name TBD) that covers multiple AP MLDs, where a non-AP MLD can use the UHR seamless roaming procedure to roam between the AP MLDs of the SMD
      * A logical SMD Management Entity (SMD-ME, exact name TBD) provides association, IEEE 802.1X Authenticator (except for the management of 802.1X control ports which is TBD) and RSNA Key management for non-AP MLDs across all AP MLDs of the SMD.
      * A non-AP MLD transitions between AP MLDs within the SMD while maintaining its association and security association with the SMD-ME.
      * The non-AP MLD can transition from one SMD to another SMD that are part of the same MD (Mobility Domain) using FT with improvements

*Reference docs: [*[*24/2072*](https://mentor.ieee.org/802.11/dcn/24/11-24-2072-00-00bn-nc-mlo-smd-architecture.pptx)*,* [*24/1894*](https://mentor.ieee.org/802.11/dcn/24/11-24-1894-00-00bn-smd-architecture.pptx)*,* [*24/0052,*](https://mentor.ieee.org/802.11/dcn/24/11-24-0052-00-00bn-seamless-roaming-details.pptx)[*23/1884*](https://mentor.ieee.org/802.11/dcn/23/11-23-1884-02-00bn-seamless-roaming.pptx)*,* [*23/1937*](https://mentor.ieee.org/802.11/dcn/23/11-23-1937-01-00bn-smooth-roaming-follow-up-1.pptx)*,* [*23/1996,*](https://mentor.ieee.org/802.11/dcn/23/11-23-1996-00-00bn-improve-roaming-between-mlds.pptx)[*24/830*](https://mentor.ieee.org/802.11/dcn/24/11-24-0830-01-00bn-improve-roaming-between-mlds-follow-up.pptx)*,* [*24/0083*](https://mentor.ieee.org/802.11/dcn/24/11-24-0083-01-00bn-smooth-roaming-follow-up-2.pptx)*,* [*24/0101*](https://mentor.ieee.org/802.11/dcn/24/11-24-0101-03-00bn-mld-roaming.pptx)*,* [*24/0396*](https://mentor.ieee.org/802.11/dcn/24/11-24-0396-02-00bn-seamless-roaming-within-a-mobility-domain-follow-up.pptx)*,* [*24/1812*](https://mentor.ieee.org/802.11/dcn/24/11-24-1812-01-00bn-seamless-roaming-through-a-target-ap-follow-up.pptx)*,* [*24/0398*](https://mentor.ieee.org/802.11/dcn/24/11-24-0398-00-00bn-coordinated-roaming-through-target-ap-mld.pptx)*,* [*24/0412*](https://mentor.ieee.org/802.11/dcn/24/11-24-0412-01-00bn-seamless-roaming-procedure-follow-up.pptx)*,* [*24/0655*](https://mentor.ieee.org/802.11/dcn/24/11-24-0655-00-00bn-thoughts-on-smd-roaming-and-ft-roaming.pptx)*,* [*23/2157*](https://mentor.ieee.org/802.11/dcn/23/11-23-2157-02-00bn-seamless-roaming-within-a-mobility-domain.pptx)*,* [*24/679*](https://mentor.ieee.org/802.11/dcn/24/11-24-0679-04-00bn-thoughts-on-functionality-and-security-architecture-for-uhr-seamless-roaming.pptx)*,* [*24/1425*](https://mentor.ieee.org/802.11/dcn/24/11-24-1425-00-00bn-considerations-for-context-transfer-in-11bn.pptx)*,* [*24/881*](https://mentor.ieee.org/802.11/dcn/24/11-24-0881-00-00bn-improving-stability-during-roaming-process.pptx)*,* [*24/1882*](https://mentor.ieee.org/802.11/dcn/24/11-24-1882-01-00bn-link-setup-for-seamless-roaming.pptx)*,* [*24/1883*](https://mentor.ieee.org/802.11/dcn/24/11-24-1883-02-00bn-seamless-roaming.pptx)*,* [*23/1897*](https://mentor.ieee.org/802.11/dcn/23/11-23-1897-00-00bn-thoughts-on-improving-roaming-under-existing-architecture.pptx)*,* [*24/0349*](https://mentor.ieee.org/802.11/dcn/24/11-24-0349-03-00bn-enhanced-fast-bss-transition.pptx)*,* [*24/0480*](https://mentor.ieee.org/802.11/dcn/24/11-24-0480-00-00bn-details-on-context-transfer-and-data-forwarding-under-ft-protocol.pptx)*,* [*23/1416*](https://mentor.ieee.org/802.11/dcn/23/11-23-1416-00-0uhr-seamless-roaming-follow-up.pptx)*,* [*24/0881*](https://mentor.ieee.org/802.11/dcn/24/11-24-0881-00-00bn-improving-stability-during-roaming-process.pptx)*,* [*23/1897*](https://mentor.ieee.org/802.11/dcn/23/11-23-1897-00-00bn-thoughts-on-improving-roaming-under-existing-architecture.pptx)*,* [*24/0349*](https://mentor.ieee.org/802.11/dcn/24/11-24-0349-03-00bn-enhanced-fast-bss-transition.pptx)*,* [*24/1746*](https://mentor.ieee.org/802.11/dcn/24/11-24-1746-03-00bn-comparision-between-enhanced-fast-bss-transition-and-smd.pptx)*]. SP result: No objection.*

Move: Mike Montemurro Second: Giovanni Chisci

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 280 (MAC)**

Move to add to the TGbn SFD the following:

* + - 11bn defines that within a Seamless Mobility Domain (SMD, exact name TBD) the data path includes either one MAC-SAP for the SMD or a separate MAC-SAP per AP MLD of the SMD.
      * In the case of a separate MAC-SAP per AP MLD, the DS mapping is updated when the non-AP MLD roams to another AP MLD within the SMD.
      * In the case of a separate MAC-SAP per AP MLD, the component of the 802.1X Authenticator in the SMD-ME interacts with an 802.1X Authenticator component in the AP MLD that manages the 802.1X controlled port for the non-AP MLD.
      * In the case of a single MAC-SAP for the SMD, the 802.1X Authenticator in the SMD-ME manages the 802.1X controlled port for the non-AP MLD.

*Reference docs: [*[*24/2072*](https://mentor.ieee.org/802.11/dcn/24/11-24-2072-00-00bn-nc-mlo-smd-architecture.pptx)*,* [*24/1894*](https://mentor.ieee.org/802.11/dcn/24/11-24-1894-00-00bn-smd-architecture.pptx)*,* [*24/0052,*](https://mentor.ieee.org/802.11/dcn/24/11-24-0052-00-00bn-seamless-roaming-details.pptx)[*23/1884*](https://mentor.ieee.org/802.11/dcn/23/11-23-1884-02-00bn-seamless-roaming.pptx)*,* [*23/1937*](https://mentor.ieee.org/802.11/dcn/23/11-23-1937-01-00bn-smooth-roaming-follow-up-1.pptx)*,* [*23/1996,*](https://mentor.ieee.org/802.11/dcn/23/11-23-1996-00-00bn-improve-roaming-between-mlds.pptx)[*24/830*](https://mentor.ieee.org/802.11/dcn/24/11-24-0830-01-00bn-improve-roaming-between-mlds-follow-up.pptx)*,* [*24/0083*](https://mentor.ieee.org/802.11/dcn/24/11-24-0083-01-00bn-smooth-roaming-follow-up-2.pptx)*,* [*24/0101*](https://mentor.ieee.org/802.11/dcn/24/11-24-0101-03-00bn-mld-roaming.pptx)*,* [*24/0396*](https://mentor.ieee.org/802.11/dcn/24/11-24-0396-02-00bn-seamless-roaming-within-a-mobility-domain-follow-up.pptx)*,* [*24/1812*](https://mentor.ieee.org/802.11/dcn/24/11-24-1812-01-00bn-seamless-roaming-through-a-target-ap-follow-up.pptx)*,* [*24/0398*](https://mentor.ieee.org/802.11/dcn/24/11-24-0398-00-00bn-coordinated-roaming-through-target-ap-mld.pptx)*,* [*24/0412*](https://mentor.ieee.org/802.11/dcn/24/11-24-0412-01-00bn-seamless-roaming-procedure-follow-up.pptx)*,* [*24/0655*](https://mentor.ieee.org/802.11/dcn/24/11-24-0655-00-00bn-thoughts-on-smd-roaming-and-ft-roaming.pptx)*,* [*23/2157*](https://mentor.ieee.org/802.11/dcn/23/11-23-2157-02-00bn-seamless-roaming-within-a-mobility-domain.pptx)*,* [*24/679*](https://mentor.ieee.org/802.11/dcn/24/11-24-0679-04-00bn-thoughts-on-functionality-and-security-architecture-for-uhr-seamless-roaming.pptx)*,* [*24/1425*](https://mentor.ieee.org/802.11/dcn/24/11-24-1425-00-00bn-considerations-for-context-transfer-in-11bn.pptx)*,* [*24/881*](https://mentor.ieee.org/802.11/dcn/24/11-24-0881-00-00bn-improving-stability-during-roaming-process.pptx)*,* [*24/1882*](https://mentor.ieee.org/802.11/dcn/24/11-24-1882-01-00bn-link-setup-for-seamless-roaming.pptx)*,* [*24/1883*](https://mentor.ieee.org/802.11/dcn/24/11-24-1883-02-00bn-seamless-roaming.pptx)*,* [*23/1897*](https://mentor.ieee.org/802.11/dcn/23/11-23-1897-00-00bn-thoughts-on-improving-roaming-under-existing-architecture.pptx)*,* [*24/0349*](https://mentor.ieee.org/802.11/dcn/24/11-24-0349-03-00bn-enhanced-fast-bss-transition.pptx)*,* [*24/0480*](https://mentor.ieee.org/802.11/dcn/24/11-24-0480-00-00bn-details-on-context-transfer-and-data-forwarding-under-ft-protocol.pptx)*,* [*23/1416*](https://mentor.ieee.org/802.11/dcn/23/11-23-1416-00-0uhr-seamless-roaming-follow-up.pptx)*,* [*24/0881*](https://mentor.ieee.org/802.11/dcn/24/11-24-0881-00-00bn-improving-stability-during-roaming-process.pptx)*,* [*23/1897*](https://mentor.ieee.org/802.11/dcn/23/11-23-1897-00-00bn-thoughts-on-improving-roaming-under-existing-architecture.pptx)*,* [*24/0349*](https://mentor.ieee.org/802.11/dcn/24/11-24-0349-03-00bn-enhanced-fast-bss-transition.pptx)*,* [*24/1746*](https://mentor.ieee.org/802.11/dcn/24/11-24-1746-03-00bn-comparision-between-enhanced-fast-bss-transition-and-smd.pptx)*]. SP result: No objection.*

Move: Mike Montemurro Second: Binita Gupta

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 281 (MAC)**

Move to add to the TGbn SFD the following:

* + - For negotiation over the wireless medium, an AP that requests protection for its R-TWT schedule(s) via negotiations with another AP includes information carried in TBD fields of the Broadcast TWT Parameter Set field corresponding to each R-TWT schedule being negotiated in a TBD individually addressed Management frame that it transmits to the other AP.

*Reference docs: [*[*24/160*](https://mentor.ieee.org/802.11/dcn/24/11-24-0160-01-00bn-r-twt-coordination-negotiation-in-multi-bss.pptx)*,* [*23/1916*](https://mentor.ieee.org/802.11/dcn/23/11-23-1916-01-00bn-r-twt-coordination-in-multi-bss.pptx)*,* [*23/355*](https://mentor.ieee.org/802.11/dcn/23/11-23-0355-00-0uhr-enhanced-rtwt-and-map-operation.pptx)*,* [*24/1346*](https://mentor.ieee.org/802.11/dcn/24/11-24-1346-02-00bn-considerations-for-multi-ap-sp-coordination.pptx)*,* [*24/1220*](https://mentor.ieee.org/802.11/dcn/24/11-24-1220-00-00bn-a-framework-for-coordinated-access-points.pptx)*,* [*24/407*](https://mentor.ieee.org/802.11/dcn/24/11-24-0407-00-00bn-r-twt-multi-ap-coordination-follow-up.pptx)*,* [*24/2045*](https://mentor.ieee.org/802.11/dcn/24/11-24-2045-00-00bn-detailed-text-proposal-on-crtwt.docx)*,* [*23/1887*](https://mentor.ieee.org/802.11/dcn/23/11-23-1887-01-00bn-coordinated-medium-access-for-multi-ap-deployments.pptx)*,* [*23/0226*](https://mentor.ieee.org/802.11/dcn/24/11-24-0226-07-00bi-tgbi-telecon-jan-feb-agenda.pptx)*,* [*22/1530*](https://mentor.ieee.org/802.11/dcn/22/11-22-1530-01-0uhr-multi-ap-coordination-for-next-generation-wi-fi.pptx)*,* [*23/860*](https://mentor.ieee.org/802.11/dcn/23/11-23-0860-00-0uhr-further-thoughts-on-coordinated-twt.pptx)*,* [*23/1932*](https://mentor.ieee.org/802.11/dcn/23/11-23-1932-03-00bn-further-considerations-on-coordinated-twt.pptx)*]. SP result: No objection.*

Move: SunHee Baek Second: Dongguk Lim

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 282 (MAC)**

Move to add to the TGbn SFD the following:

* + - When a non-AP MLD is in the process of roaming from a current AP MLD to a target AP MLD, the non-AP MLD can request to the current AP MLD what context needs to be transferred from the current AP MLD to the target AP MLD.
      * What context can be requested is TBD
      * It applies when the current AP MLD and the Target AP MLD support the context transfer

*Reference docs: [*[*24/1516*](https://mentor.ieee.org/802.11/dcn/24/11-24-1516-01-00bn-seamless-roaming-context-transfer.pptx)*,* [*24/0396*](https://mentor.ieee.org/802.11/dcn/24/11-24-0396-02-00bn-seamless-roaming-within-a-mobility-domain-follow-up.pptx)*,* [*24/830*](https://mentor.ieee.org/802.11/dcn/24/11-24-0830-01-00bn-improve-roaming-between-mlds-follow-up.pptx)*,* [*24/1883*](https://mentor.ieee.org/802.11/dcn/24/11-24-1883-02-00bn-seamless-roaming.pptx)*,* [*24/1890*](https://mentor.ieee.org/802.11/dcn/24/11-24-1890-00-00bn-seamless-roaming-follow-up-2.pptx)*,* [*24/1746*](https://mentor.ieee.org/802.11/dcn/24/11-24-1476-02-00bn-seamless-roaming-follow-up.pptx)*,* [*24/1851*](https://mentor.ieee.org/802.11/dcn/24/11-24-1851-02-00bn-context-transfer-per-tid-for-seamless-roaming.pptx)*,* [*23/1416*](https://mentor.ieee.org/802.11/dcn/23/11-23-1416-00-0uhr-seamless-roaming-follow-up.pptx)*,* [*24/1898*](https://mentor.ieee.org/802.11/dcn/24/11-24-1898-00-00bn-low-latency-roaming-flow.pptx)*,* [*24/0052*](https://mentor.ieee.org/802.11/dcn/24/11-24-0052-00-00bn-seamless-roaming-details.pptx)*]. SP result: 180Y, 14N, 57A*

Move: Yelin Yoon Second: Pooya Monajemi

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 283 (MAC)**

Move to add to the TGbn SFD the following:

* + - As part of seamless roaming procedure, a non-AP MLD can initiate a roaming preparation procedure with a target AP MLD by sending a TBD request frame to its current AP MLD.
      * The request frame indicates the set of links to be set up with the target AP MLD.
      * The request frame indicates the context to be transferred or renegotiated with the target AP MLD.
      * The current AP MLD sends a TBD response frame to the non-AP MLD to indicate the status (accept/reject) of the link setup.
      * If the link setup is accepted, the transferable context is transferred to the target AP MLD.
      * TBD on whether/how the renegotiation of context is performed in these request/response frames
      * TBD – multiple candidate target AP MLDs selection

*Reference docs: [*[*24/0052*](https://mentor.ieee.org/802.11/dcn/24/11-24-0052-00-00bn-seamless-roaming-details.pptx)*,* [*23/1884*](https://mentor.ieee.org/802.11/dcn/23/11-23-1884-02-00bn-seamless-roaming.pptx)*,* [*23/1937*](https://mentor.ieee.org/802.11/dcn/23/11-23-1937-01-00bn-smooth-roaming-follow-up-1.pptx)*,* [*23/1996,*](https://mentor.ieee.org/802.11/dcn/23/11-23-1996-00-00bn-improve-roaming-between-mlds.pptx)[*24/830*](https://mentor.ieee.org/802.11/dcn/24/11-24-0830-01-00bn-improve-roaming-between-mlds-follow-up.pptx)*,* [*24/0083*](https://mentor.ieee.org/802.11/dcn/24/11-24-0083-01-00bn-smooth-roaming-follow-up-2.pptx)*,* [*24/0101*](https://mentor.ieee.org/802.11/dcn/24/11-24-0101-03-00bn-mld-roaming.pptx)*,* [*24/0396*](https://mentor.ieee.org/802.11/dcn/24/11-24-0396-02-00bn-seamless-roaming-within-a-mobility-domain-follow-up.pptx)*,* [*24/1812*](https://mentor.ieee.org/802.11/dcn/24/11-24-1812-01-00bn-seamless-roaming-through-a-target-ap-follow-up.pptx)*,* [*24/0398*](https://mentor.ieee.org/802.11/dcn/24/11-24-0398-00-00bn-coordinated-roaming-through-target-ap-mld.pptx)*,* [*24/0412*](https://mentor.ieee.org/802.11/dcn/24/11-24-0412-01-00bn-seamless-roaming-procedure-follow-up.pptx)*,* [*24/0655*](https://mentor.ieee.org/802.11/dcn/24/11-24-0655-00-00bn-thoughts-on-smd-roaming-and-ft-roaming.pptx)*,* [*23/2157*](https://mentor.ieee.org/802.11/dcn/23/11-23-2157-02-00bn-seamless-roaming-within-a-mobility-domain.pptx)*,* [*24/679*](https://mentor.ieee.org/802.11/dcn/24/11-24-0679-04-00bn-thoughts-on-functionality-and-security-architecture-for-uhr-seamless-roaming.pptx)*,* [*24/1425*](https://mentor.ieee.org/802.11/dcn/24/11-24-1425-00-00bn-considerations-for-context-transfer-in-11bn.pptx)*,* [*24/881*](https://mentor.ieee.org/802.11/dcn/24/11-24-0881-00-00bn-improving-stability-during-roaming-process.pptx)*,* [*24/1882*](https://mentor.ieee.org/802.11/dcn/24/11-24-1882-01-00bn-link-setup-for-seamless-roaming.pptx)*,* [*24/1883*](https://mentor.ieee.org/802.11/dcn/24/11-24-1883-02-00bn-seamless-roaming.pptx)*,* [*23/1897*](https://mentor.ieee.org/802.11/dcn/23/11-23-1897-00-00bn-thoughts-on-improving-roaming-under-existing-architecture.pptx)*,* [*24/0349*](https://mentor.ieee.org/802.11/dcn/24/11-24-0349-03-00bn-enhanced-fast-bss-transition.pptx)*,* [*24/0480*](https://mentor.ieee.org/802.11/dcn/24/11-24-0480-00-00bn-details-on-context-transfer-and-data-forwarding-under-ft-protocol.pptx)*,* [*23/1416*](https://mentor.ieee.org/802.11/dcn/23/11-23-1416-00-0uhr-seamless-roaming-follow-up.pptx)*,* [*24/1824*](https://mentor.ieee.org/802.11/dcn/24/11-24-1824-01-00bn-discussion-on-context-transfer-in-seamless-roaming.pptx)*,* [*24/2129*](https://mentor.ieee.org/802.11/dcn/24/11-24-2129-00-00bn-aid-assignment-for-seamless-roaming.pptx)*]. SP result: No objection.*

Move: Binita Gupta Second: Chittabrata Ghosh

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 284 (MAC)**

Move to add to the TGbn SFD the following:

* + - As part of seamless roaming procedure, a non-AP MLD in state 4 with the SMD-ME can perform roaming transition through a target AP MLD that is a part of the SMD.
    - TBD on the conditions and details for performing roaming through target AP MLD

*Reference docs :[*[*24/0398*](https://mentor.ieee.org/802.11/dcn/24/11-24-0398-00-00bn-coordinated-roaming-through-target-ap-mld.pptx)*,* [*24/1812*](https://mentor.ieee.org/802.11/dcn/24/11-24-1812-01-00bn-seamless-roaming-through-a-target-ap-follow-up.pptx)*,* [*24/1883*](https://mentor.ieee.org/802.11/dcn/24/11-24-1883-02-00bn-seamless-roaming.pptx)*,* [*23/1884*](https://mentor.ieee.org/802.11/dcn/23/11-23-1884-02-00bn-seamless-roaming.pptx)*,* [*24/0052*](https://mentor.ieee.org/802.11/dcn/24/11-24-0052-00-00bn-seamless-roaming-details.pptx)*]. SP result: No objection.*

Move: Binita Gupta Second: Giovanni Chisci

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 285 (MAC)**

Move to add to the TGbn SFD the following:

* + - For security in seamless roaming, when a non-AP MLD is in the process of roaming from the current AP MLD to a target AP MLD within the SMD, the same PMKSA, established with the SMD-ME, shall be used to protect communications with the current AP MLD and the target AP MLD.

*Reference docs: [*[*23/1416*](https://mentor.ieee.org/802.11/dcn/23/11-23-1416-00-0uhr-seamless-roaming-follow-up.pptx)*,* [*24/2072*](https://mentor.ieee.org/802.11/dcn/24/11-24-2072-00-00bn-nc-mlo-smd-architecture.pptx)*,* [*24/1894*](https://mentor.ieee.org/802.11/dcn/24/11-24-1894-00-00bn-smd-architecture.pptx)*,* [*24/0052*](https://mentor.ieee.org/802.11/dcn/24/11-24-0052-00-00bn-seamless-roaming-details.pptx)*,* [*23/1884*](https://mentor.ieee.org/802.11/dcn/23/11-23-1884-02-00bn-seamless-roaming.pptx)*,* [*23/1937*](https://mentor.ieee.org/802.11/dcn/23/11-23-1937-01-00bn-smooth-roaming-follow-up-1.pptx)*,* [*23/1996*](https://mentor.ieee.org/802.11/dcn/23/11-23-1996-00-00bn-improve-roaming-between-mlds.pptx)*,* [*24/0083*](https://mentor.ieee.org/802.11/dcn/24/11-24-0083-01-00bn-smooth-roaming-follow-up-2.pptx)*,* [*24/0101*](https://mentor.ieee.org/802.11/dcn/24/11-24-0101-03-00bn-mld-roaming.pptx)*,* [*24/0396*](https://mentor.ieee.org/802.11/dcn/24/11-24-0396-02-00bn-seamless-roaming-within-a-mobility-domain-follow-up.pptx)*,* [*24/1812*](https://mentor.ieee.org/802.11/dcn/24/11-24-1812-01-00bn-seamless-roaming-through-a-target-ap-follow-up.pptx)*,* [*24/0398*](https://mentor.ieee.org/802.11/dcn/24/11-24-0398-00-00bn-coordinated-roaming-through-target-ap-mld.pptx)*,* [*24/0412*](https://mentor.ieee.org/802.11/dcn/24/11-24-0412-01-00bn-seamless-roaming-procedure-follow-up.pptx)*,* [*24/0655*](https://mentor.ieee.org/802.11/dcn/24/11-24-0655-00-00bn-thoughts-on-smd-roaming-and-ft-roaming.pptx)*,* [*23/2157*](https://mentor.ieee.org/802.11/dcn/23/11-23-2157-02-00bn-seamless-roaming-within-a-mobility-domain.pptx)*,* [*24/679*](https://mentor.ieee.org/802.11/dcn/24/11-24-0679-04-00bn-thoughts-on-functionality-and-security-architecture-for-uhr-seamless-roaming.pptx)*,* [*24/1882*](https://mentor.ieee.org/802.11/dcn/24/11-24-1882-01-00bn-link-setup-for-seamless-roaming.pptx)*,* [*24/1883*](https://mentor.ieee.org/802.11/dcn/24/11-24-1883-02-00bn-seamless-roaming.pptx)*]. SP result: No objection.*

Move: Giovanni Chisci Second: Binita Gupta

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 286 (MAC)**

Move to add to the TGbn SFD the following:

* + - For security in seamless roaming, when a non-AP MLD is in the process of roaming from the current AP MLD to a target AP MLD within the SMD, the same PTKSA, established with the SMD-ME, shall be used to protect communications with the current AP MLD and the target AP MLD.

*Reference docs: [*[*23/1416*](https://mentor.ieee.org/802.11/dcn/23/11-23-1416-00-0uhr-seamless-roaming-follow-up.pptx)*,* [*24/2072*](https://mentor.ieee.org/802.11/dcn/24/11-24-2072-00-00bn-nc-mlo-smd-architecture.pptx)*,* [*24/1894*](https://mentor.ieee.org/802.11/dcn/24/11-24-1894-00-00bn-smd-architecture.pptx)*,* [*24/0052*](https://mentor.ieee.org/802.11/dcn/24/11-24-0052-00-00bn-seamless-roaming-details.pptx)*,* [*23/1884*](https://mentor.ieee.org/802.11/dcn/23/11-23-1884-02-00bn-seamless-roaming.pptx)*,* [*23/1937*](https://mentor.ieee.org/802.11/dcn/23/11-23-1937-01-00bn-smooth-roaming-follow-up-1.pptx)*,* [*23/1996*](https://mentor.ieee.org/802.11/dcn/23/11-23-1996-00-00bn-improve-roaming-between-mlds.pptx)*,* [*24/0083*](https://mentor.ieee.org/802.11/dcn/24/11-24-0083-01-00bn-smooth-roaming-follow-up-2.pptx)*,* [*24/0101*](https://mentor.ieee.org/802.11/dcn/24/11-24-0101-03-00bn-mld-roaming.pptx)*,* [*24/0396*](https://mentor.ieee.org/802.11/dcn/24/11-24-0396-02-00bn-seamless-roaming-within-a-mobility-domain-follow-up.pptx)*,* [*24/1812*](https://mentor.ieee.org/802.11/dcn/24/11-24-1812-01-00bn-seamless-roaming-through-a-target-ap-follow-up.pptx)*,* [*24/0398*](https://mentor.ieee.org/802.11/dcn/24/11-24-0398-00-00bn-coordinated-roaming-through-target-ap-mld.pptx)*,* [*24/0412*](https://mentor.ieee.org/802.11/dcn/24/11-24-0412-01-00bn-seamless-roaming-procedure-follow-up.pptx)*,* [*24/0655*](https://mentor.ieee.org/802.11/dcn/24/11-24-0655-00-00bn-thoughts-on-smd-roaming-and-ft-roaming.pptx)*,* [*23/2157*](https://mentor.ieee.org/802.11/dcn/23/11-23-2157-02-00bn-seamless-roaming-within-a-mobility-domain.pptx)*,* [*24/679*](https://mentor.ieee.org/802.11/dcn/24/11-24-0679-04-00bn-thoughts-on-functionality-and-security-architecture-for-uhr-seamless-roaming.pptx)*,* [*24/1882*](https://mentor.ieee.org/802.11/dcn/24/11-24-1882-01-00bn-link-setup-for-seamless-roaming.pptx)*,* [*24/1883*](https://mentor.ieee.org/802.11/dcn/24/11-24-1883-02-00bn-seamless-roaming.pptx)*]. SP result: No objection.*

Move: Giovanni Chisci Second: Binita Gupta

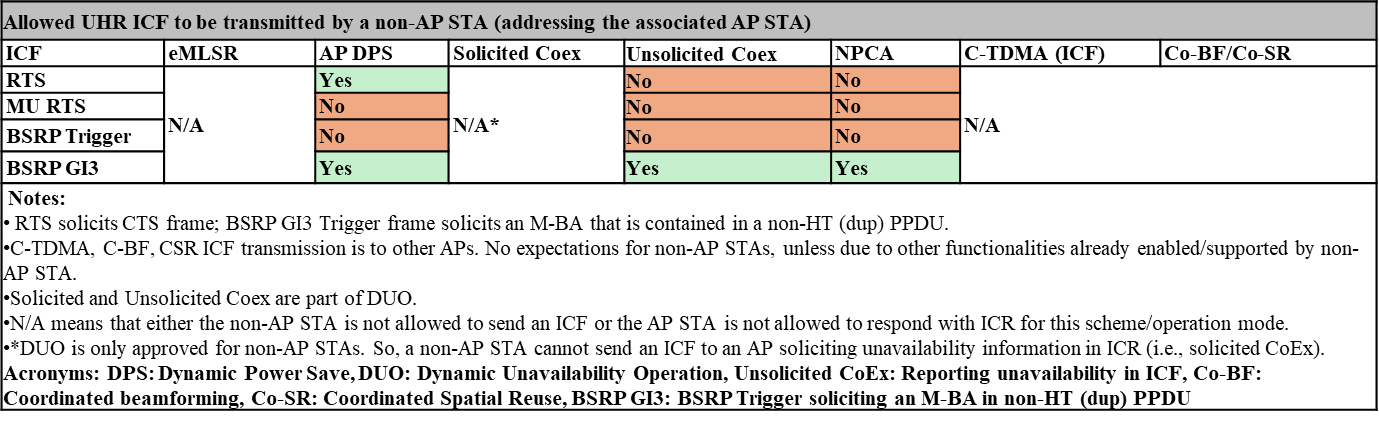
* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 287 (MAC)**

Move to add to the TGbn SFD the following:

* + - Legend: Green: allowed; Orange: disallowed



*Reference docs: [*[*24/1558*](https://mentor.ieee.org/802.11/dcn/24/11-24-1558-02-00bn-in-device-coexistence-follow-up.pptx)*,* [*24/1221*](https://mentor.ieee.org/802.11/dcn/24/11-24-1221-03-00bn-icf-icr-follow-up.pptx)*,* [*24/1225*](https://mentor.ieee.org/802.11/dcn/24/11-24-1225-01-00bn-initial-control-frames-in-c-tdma.pptx)*,* [*24/1563*](https://mentor.ieee.org/802.11/dcn/24/11-24-1563-02-00bn-npca-follow-up.pptx)*]. SP result: No objection.*

Move: Sherief Helwa Second: Liwen Chu

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 288 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2066r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2066-01-00bn-pdt-mac-acknolwedgement-procedure.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2066r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2066-01-00bn-pdt-mac-acknolwedgement-procedure.docx)*]. SP result: No objection.*

Move: Ming Gan Second: Abhishek Patil

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 289 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-24/2067r2](https://mentor.ieee.org/802.11/dcn/24/11-24-2067-02-00bn-pdt-mac-uhr-bss-operation.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2067r2*](https://mentor.ieee.org/802.11/dcn/24/11-24-2067-02-00bn-pdt-mac-uhr-bss-operation.docx)*]. SP result: No objection.*

Move: Ming Gan Second: Matthew Fisher

* + - Discussion: None.

**Result: Approved with unanimous consent.**

(additional motions)

* + **Motion 290 (Joint-PDT)**

Move to incorporate the proposed text changes in [11-24/2030r8](https://mentor.ieee.org/802.11/dcn/24/11-24-2030-08-00bn-pdt-mac-coordinated-beamforming.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2030r8*](https://mentor.ieee.org/802.11/dcn/24/11-24-2030-08-00bn-pdt-mac-coordinated-beamforming.docx)*]. SP result: No objection.*

Move: Jason Y. Guo Second: Sherief Helwa

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 291 (Joint-PDT)**

Move to incorporate the proposed text changes in [11-24/2133r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2133-04-00bn-pdt-joint-trigger-frame.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2133r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-2133-04-00bn-pdt-joint-trigger-frame.docx)*]. SP result: No objection.*

Move: Alice Chen Second: Lin Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 292 (Joint-PDT)**

Move to incorporate the proposed text changes in [11-24/2029r1](https://mentor.ieee.org/802.11/dcn/24/11-24-2029-01-00bn-pdt-joint-mib.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2029r1*](https://mentor.ieee.org/802.11/dcn/24/11-24-2029-01-00bn-pdt-joint-mib.docx)*]. SP result: No objection.*

Move: Li Quan Second: Yan Li

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 293 (Joint-PDT)**

Move to incorporate the proposed text changes in [11-24/2026r4](https://mentor.ieee.org/802.11/dcn/24/11-24-2026-04-00bn-pdt-joint-mlme-sap.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-24/2026r4*](https://mentor.ieee.org/802.11/dcn/24/11-24-2026-04-00bn-pdt-joint-mlme-sap.docx)*]. SP result: No objection.*

Move: Yan Li Second: Li Quan

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 294 (MAC-PDT)**

Move to incorporate the proposed text changes in [11-25/0102r2](https://mentor.ieee.org/802.11/dcn/25/11-25-0102-02-00bn-pdt-mac-mlme-for-mapc.docx) to the latest TGbn draft (TGbn D0.1)

*Reference docs: [*[*11-25/0102r2*](https://mentor.ieee.org/802.11/dcn/25/11-25-0102-02-00bn-pdt-mac-mlme-for-mapc.docx)*]. SP result: No objection.*

Move: Brian Hart Second: Jay Yang

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* + **Motion 295**

Move to instruct the TGbn Editor to create IEEE802.11bn D0.1 draft by incorporating the changes specified in all the approved proposed draft text (PDT) documents.

Move: Abhishek Patil Second: Stephen McCann

* + - Discussion: None.

**Result: Approved with unanimous consent.**

* Teleconference Plan
  + January 27-February 05(Monday-Wednesday) Holiday
  + February 06 (Thursday) – MAC/PHY 10:00-12:00 ET
  + February 10 (Monday) – MAC/PHY 19:00-21:00 ET
  + February 13 (Thursday) – MAC/PHY 10:00-12:00 ET
  + February 17 (Monday) Holiday
  + February 20 (Thursday) – MAC/PHY 10:00-12:00 ET
  + February 24 (Monday) – MAC/PHY 19:00-21:00 ET
  + February 27 (Thursday) – Joint (Motions)\* 10:00-12:00 ET
  + March 03-March 07 (Monday-Friday) Holiday

\* TGbn joint session during which there can be motions, subject to WG chair approval and with 10-day advanced notice.

* Goals for March 2025
* AoB: None.
* Adjourned at 17:32.

**Appendix**

* The record of the voting result for Motion xxx