IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGbp Ambient Power Communication  Teleconference Minutes May, June, July 2025 | | | | |
| Date: 2025-03-06 | | | | |
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Abstract

This document contains the IEEE 802.11 TGbp minutes for the teleconferences in May, June, and July 2025.

Rev 0: Minutes for the IEEE 802.11 TGbp teleconference on 2025-05-27 added

TG Chair: Bo Sun (Sanechips)

TG Vice Chairs: Steve Shellhammer (Qualcomm)

Rakesh Taori (Infineon)

TG Secretary: Sebastian Max (Ericsson)

TG Technical Editor: Yinan Qi (OPPO)

Abbrevations:

Q Question

A Answer

C Comment

SP Straw Poll

# Tuesday, May 27 2025, 10:00am - 12:00am (EDT)

## Opening

The TG Chair, Bo Son (Sanechips), presents the TG bp meeting agenda slides (IEEE 802.11-25/0989r1).

* Chair calls the meeting to order at 10:00 EDT.
* Chair instructs members to record attendance in IMAT.
* Chair reviews the meeting rules and patent policy (slides 2-6).
* No response to the call for patents.
* Chair reviews IEEE-SA COPYRIGHT POLICY (slides 7-8)
* Chair reviews other Guidelines, Participation, Suggested Best Practices (slides 9-10).
* Chair reviews the current TGbp session submission list (slide 11-13), the teleconference plan (slide 14).

## Agenda

Chair presents the agenda of the session: https://mentor.ieee.org/802.11/dcn/24/11-25-0989r1 (slide 16).

* + Call meeting to order and remind the group to record attendance on imat.ieee.org
  + IEEE-SA IPR policies and meeting rules
  + Approve meeting agenda
  + Review updated SFD (11-24/1613r8)
  + Spec draft skeleton introduction (11-25/0613, 11-25/0614)
  + Call for volunteers for PoC/TTT
  + Any other business?
  + Recess

Chair calls for approval of the agenda of the TGbp session.

No objection, agenda approved.

## Review of the updated SFD (11-24/1613r8)

Yinan Qi (OPPO) presents document IEEE 802.11-24/1613r8, the current SFD, which includes updates according to the motion passed during the May meeting.

C: Typo in 3.6, should be "logical"

C: MM-19, check text.

C: There are multiple trigger frame motions in the uplink part, they should be in the frame format section.

A: Put them there as they also describe behavior.

Q: AMP PHY, sub-1GHz will be there. How will we organize this? Will there be separate sections?

A: Might depend on the design. If it is substantial different, it will be its own section.

Q: Everything is in clause 4?

A: Yes.

Q: There will be substantial differences. There should be different sections under chapter 4.

C: There are hardware differences between sub-1GHz and 2.4GHz.

C: In the proposed specification skeleton the trigger frame is also in the frame format section.

Q: Did you already get the clause number assigned?

A: Yes. TGbp has clauses assigned. 39 for MAC, 40 for PHY.

The chair announces that there will be a motion on the updated SFD at the beginning of the next face-to-face meeting.

## Specification draft skeleton introduction

Yinan Qi (OPPO) presents document IEEE 802.11-25/0614r2, "Proposed Specification Skeleton for TGbp".

C: Frame format section titles, it should be "AMP ..." to distinguish them from the baseline frame format.

C: Same section. We should follow the WUR writing style.

Q: We discussed at least 4 different use cases. There are no corresponding sections. For example, in 11ba, there is a wake-up operation section. Shall we add one sub-clause for each of the possible modes of operation.

A: Currently MAC is organized by technical topic. E.g., UHF RFID logic interface support – this is only for backscattering.

Q: We already know the different modes. A section should descibe how each mode operates.

A: Shall we leave this to the POC?

Q: We might have a unified section for each topic (e.g., channel access), and then clarify the operation for each mode in a dedicated section.

C: From MAC point-of-view, different modes may share types of operation. Channel access might not be unique for one point of operation.

C: Suggestion to have an additional section, (e.g. 39.10) that describes special settings for the different modes.

C: Suggest having sync field sections for each mode, as motioned.

C: Backscatter signal processing should have a PHY section, as it's very different to legacy mode of operation.

C: Expect to have WPT PHY-layer motions, they should be put somewhere.

Yinan will update to a r3 based on the discussion.

## Specification Text Topics and Volunteers

Yinan Qi (OPPO) presents document IEEE 802.11-25/0613r2.

Q: Can we add AMP sub-1G as PHY topic?

A: Need to modify spec skeleton first for this, and we don't have a specific design yet. If we have further motions related to sub-1GHz agreed, then we will insert a new subclause.

Q: Text (and thus table) should be for the skeleton, not for the SFD. Thus the table should be organized by the skeleton format.

C: As long as there's a 1-to-1 mapping from the SFD topic to the skeleton topic it does not matter.

SP on the discussion: It is proposed to use Skeleton to assign POC and TTT for Draft 0.1 of the 802.11bp specification.

Y: 14; N: 4; A: 5

Clarification: SP is just for information, no decision. It's up to the editor to take the result into account and decide to adapt the table.

Chair presents IEEE 802.11-25/0989r1, slide 17, Principles for the PDT development to generate 11bp D0.1.

## Adjourn

The chair announces the session adjourned at 11:55 EDT.

Next telephone conference will be on June 17th.

## Attendance

Zhou, Lei New H3C Technologies Co., Limited

Bajaj, Ian Huawei International Pte Ltd

Bao, Zhanjing TCL

Ben Arie, Yaron Huawei

Bower, Patricia HaiLa Technologies, Inc

Chen, You-Wei MediaTek Inc.

Chitrakar, Rojan Huawei International Pte Ltd

Costa, D.Nelson HaiLa Technologies

Cui, Yaoshen TP-Link Systems Inc.

Amtmann, Franz NXP Semiconductors

Kalamkar, Sanket Qualcomm Technologies, Inc.

Max, Sebastian Ericsson AB

McCann, Stephen Huawei Technologies Co., Ltd

Namvar, Nima Charter Communications

Regev, Dror Huawei

Sanderovich, Amichai Wiliot

Shellhammer, Stephen Qualcomm Incorporated

Silverman, Matt Cisco Systems, Inc.

Sun, Bo Sanechips Technology Co., Ltd

Li, Jialing Qualcomm Incorporated; Qualcomm Technologies, Inc

Trainin, Solomon Wiliot