IEEE P802.11
Wireless LANs

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| Minutes 802.11 TGbn PHY ad hoc – June/July  |
| Date: 06 June 2024 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Sigurd Schelstraete | MaxLinear |  |  | sschelstraete@maxlinear.com |

Abstract

This document contains the meeting minutes for the following TGbn PHY ad-hoc sessions:

* Thursday June 6, 10 AM ET

# Thursday June 6th, 2024

**Introduction**

1. The Chair (Dongguk Lim, LGE) calls the meeting to order at 10:00am ET.
2. The Chair follows the agenda in IEEE 802.11-24/0964r4.
3. The Chair goes through the IPR policy and asks if anyone is aware of any potentially essential patents. **Nobody speaks up.**
4. The Chair goes through the Copyright policy.
5. The Chair reminds everyone to report their attendance using the IMAT system or by sending an e-mail to the Co-chair, Tianyu Wu (Apple), Sigurd Schelstraete (MaxLinear) or the Chair himself if unable to record attendance via IMAT system.
6. Discussions on the agenda.
	* [24/0889](https://mentor.ieee.org/802.11/dcn/24/11-24-0889-00-00bn-interference-mitigation-for-improved-reliability-link-adaptation-perspective.pptx) Interference Mitigation for Improved Reliability Rani Keren
	* [24/0924](https://mentor.ieee.org/802.11/dcn/24/11-24-0924-00-00bn-initial-discussion-on-possible-ldpc-improvements-in-wlan.pptx) Initial Discussion on Possible LDPC Improvements in WLAN Wei Lin
	* [24/0488](https://mentor.ieee.org/802.11/dcn/24/11-24-0488-01-00bn-sta-assisted-calibration-for-multi-ap-coordination.pptx) STA-assisted Calibration for Multi-AP Coordination Ke Zhong
	* [24/0734](https://mentor.ieee.org/802.11/dcn/24/11-24-0734-01-00bn-on-ueqm-and-ueq-mcs.pptx) On UEQM and UEQ-MCS Ron Porat

**Attendance**

The following people registered their attendance for the meeting:

* Arij Abougreen (VESTEL, IMU)
* AYAT AL OLAIMAT (Vestel,IMU)
* Yusuke Asai (NTT)
* You-Wei Chen (MediaTek Inc.)
* Hangyu Cho (LG ELECTRONICS)
* Jinsoo Choi (LG ELECTRONICS)
* Seungho Choo (Senscomm Semiconductor Co., LTD)
* Claudio da Silva (Meta Platforms)
* Juan Fang (Intel Corporation)
* Shuling feng (MediaTek Inc.)
* Xiangxin Gu (Spreadtrum)
* Brian Hart (Cisco Systems, Inc.)
* Hamid Hosseinianfar (Ofinno)
* Kazi Mohammed Saidul Huq (NO AFFILIATION)
* Anand Jee (SAMSUNG ELECTRONICS)
* Mahmoud Kamel (Interdigital Inc.)
* Leonardo Lanante (Ofinno)
* Wookbong Lee (Apple Inc.)
* Jialing Li (Qualcomm Technologies, Inc)
* Yapu Li (Oppo)
* Dong Guk Lim (LG ELECTRONICS)
* Yeon Geun Lim (Newracom Inc.)
* Jianhan Liu (MediaTek Inc.)
* QINGLAI LIU (Panasonic)
* Haji Muhammad Madni (VESTEL)
* Jun Minotani (Panasonic Holdings Corporation)
* Toshizo Nogami (SHARP CORPORATION)
* Sara Norouzi (Huawei Technologies Co., Ltd)
* Vishnu Ratnam (Samsung Research America)
* Sigurd Schelstraete (MaxLinear)
* Shimi Shilo (Huawei Technologies Co., Ltd)
* Aditi Singh (Charter Communications)
* Bo Sun (Sanechips Technology Co., Ltd.)
* Genadiy Tsodik (Huawei Technologies Co., Ltd)
* Prabodh Varshney (Nokia)
* Ying Wang (InterDigital, Inc.)
* Dong Wei (Oppo)
* Kanke Wu (Apple Inc.)
* Tianyu Wu (Apple Inc.)
* Ryota Yamada (SHARP CORPORATION)
* RUI YANG (InterDigital, Inc.)
* Kazuto Yano (ATR)
* Jiayi Zhang (Ofinno)
* Lei Zhou (H3C Technologies Co., Limited)

**Technical contributions**

**24/0889 Interference Mitigation for Improved Reliability (Rani Keren)**

This submission presents new results for interference mitigation, considering link adaptation perspective.

Q&A

No discussion

**24/0924 Initial Discussion on Possible LDPC Improvements in WLAN (Wei Lin)**

This submission presents a comparison of 5G LDPC with existing 802.11 LDPC code.

Q&A

Q: comparison should look at MPDU error rate instead of CW error rate

Q: can we reuse current decoding structure or is this a new matrix? Other proposed codes can reuse existing HW.

A: This is just a simulation to get a feeling of possible improvements. Open to ways to improve the code.

Q: 2x length increase is good tradeoff. You didn’t compare 2x code?

A: No

**24/0488 STA-assisted Calibration for Multi-AP Coordination (Ke Zhong)**

Not present – contribution deferred.

**24/0734r1 On UEQM and UEQ-MCS (Ron Porat)**

This is a follow-up submission to address some questions that were raised after presentation of r0.

New results with adaptation are presented. There is no change to previous conclusions.

Q&A

Q: Results appear to be different from simulation that were done by other companies. Can discuss offline.

Q: can we run SP?

A: like to harmonize sim results first

A: still evaluating. Better to allow more time before running SP.

**Adjourn**

Meeting is adjourned at 11:05 AM ET