IEEE P802.11  
Wireless LANs

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| TGax Teleconferences Minutes from December 2017 to January 2016 | | | | |
| Date: 2016-12-16 | | | | |
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Abstract

This document contains minutes of TGax teleconference from December 2016 to January 2017.

Rev. 0: Minutes from TGax teleconference on December 15th, 2016.

# Teleconference on Thursday, December 15th, 2016, 21:00 – 23:00 (ET)

1. Meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of TGax @ 21:03 (ET).
   1. Introduction of the chairperson and secretary.
2. Agenda Setting
   1. Proposed Agenda
      1. Call the meeting to order
      2. IEEE 802 and 802.11 IPR Policy and Procedure
      3. Attendance (Please send an e.mail to Yasuhiko Inoue (inoue.yasuhiko@lab.ntt.co.jp) and/or Osama Aboul-Magd (osama.aboulmagd@huawei.com))
      4. Annoucement
      5. Presentation
         1. 11-16-1604-00 “PAR Verification Single BSS Simulation,” Frank Hsu (MediaTek)
      6. AOB
      7. Adjourn
   2. Approval of the agenda
      1. Chair asked if there is any item to add to the agenda. 🡪 No item to add to the agenda.
      2. Chair asked if there is any objection to approve the agenda. 🡪 No objection. The agenda was approved.
3. IEEE 802 and 802.11 IPR Policy and Procedure
   1. Chair mentioned that we are operating under the IEEE 802 and 802.11 Policy and Procedure.
   2. Relevant documents
      1. IEEE Patent Policy - <http://standards.ieee.org/board/pat/pat-slideset.ppt>
      2. Patent FAQ - <http://standards.ieee.org/board/pat/faq.pdf>
      3. LoA Form - <http://standards.ieee.org/board/pat/loa.pdf>
      4. Affiliation FAQ - <http://standards.ieee.org/faqs/affiliationFAQ.html>
      5. Anti-Trust FAQ - <http://standards.ieee.org/resources/antitrust-guidelines.pdf>
      6. Ethics - <http://www.ieee.org/portal/cms_docs/about/CoE_poster.pdf>
      7. IEEE 802.11 Working Group Operartions Manual - <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-14-0000-802-11-operations-manual.docx>
   3. Chair asked if there is any potentially essential patent that people are aware of.
      1. No potentially essential patent reported.
4. Attendance
   1. Chair asked the attendees to send an email to Yasu ([inoue.yasuhiko@lab.ntt.co.jp](mailto:inoue.yasuhiko@lab.ntt.co.jp)) and/or Osama ([osama.aboulmagd@huawei.com](mailto:osama.aboulmagd@huawei.com)) to record attendance.
5. Announcement
   1. Chair mentioned that the WG letter ballot on the 802.11ax draft 1.0 is on going and encouraged people to submit comments.
6. Presentations
   1. **(MediaTek) presented “PAR Verification Single BSS Simulation,” based on the submission 11-16-1604-00.**
      1. Summary:
         1. System level simulation results for several UL scenarios using 11ax OFDMA were presented comparing with the results of 802.11ac.
         2. As the number of STAs increases, in UL, 11ax OFDMA has more system throughput gain over 802.11ac.
         3. Will continue to work on multiple BSS scenario definition and simulation, and make contribution to TGax Simulation scenario and EVM documents.
      2. Discussion:
         1. A member asked a question why the throughput pf 11ax is so stable. 🡪 It is because all of the UL transmissions by 11ax STAs are scheduled, there is no collision, hence no performance degradation.
         2. Chair asked follow-up questions for the details of UL sequence such as duration of one UL transmission and frame aggregation. Additionally, chair asked the scheduling of MU transmissions. 🡪 Basically, STAs are randomly chosen.
         3. Another member asked some questions:
            1. Is the overhead of the Trigger frame is considered? 🡪 Yes.
            2. Reason of choosing MCS9 for UL MU. 🡪 It is because of the distance between AP and STAs in the scenario.
            3. The impact of scheduling algorithm for UL MU. 🡪 Priority scheduling could have an impact on the 5th percentile throughput. In the simulation, the authors tried to eliminate the impact of between the different implementations scheduling algorithm and assumed the random scheduling.
         4. There was a question if the authors have any idea to change our simulation scenarios and/or evaluation methodology. 🡪 It is the intension of this simulation works. There was a discussion how to change the documents. The authors think that additional scenario for PAR verification will be good.
      3. Next Step:
         1. We need a proposal to change our simulation scenario and/or evaluation methodology documents. Offline discussions encouraged.
         2. One of the authors mentioned that single BSS scenario is just a start for this work and the plan is to propose a simplified OBSS scenario for PAR verification.
         3. A member emphasized the importance of OBSS scenario.
         4. Additional results to be presented in January 2017 session.
7. AOB
   1. No other business.
8. Adjourn
   1. Meeting adjourned at 21:46 (ET).
9. List of Attendees

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|  | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Tomoko Adachi | Toshiba |
| 3 | Jason Yunchen Guo | Huawei |
| 4 | Frank Hsu | MediaTek |
| 5 | Yasuhiko Inoue | NTT |
| 6 | Junichi Iwatani | NTT |
| 7 | Suhwook Kim | LG Electronics |
| 8 | Geonjung Ko | Wilus Institute |
| 9 | Joseph Levy | InterDigital |
| 10 | Shoko Shinohara | NTT |
| 11 | Xiaofei Wang | InterDigital |
| 12 | James Yee | MediaTek |
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