IEEE P802.11  
Wireless LANs

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| Minutes of TGax Teleconferences from February to March 2019 | | | | |
| Date: 2018-03-07 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yasuhiko Inoue | NTT | 1-1 Hikaro-no-oka, Yokosuka, Kanagawa 239-0847 Japan | ++81-46-859-5097 | inoue.yasuhiko@lab.ntt.co.jp |
|  |  |  |  |  |

Abstract

This document contains minutes of TGax teleconference from February to March 2019.

Rev. 0: Initial version.

* Minutes of TGax teleconferences on February 28th, 2019.

# Teleconference on Thursday, February 28th, 2019, 20:00 – 22:00 (ET)

1. **Meeting called to order by Osama Aboul-Magd (Huawei Technologies), the chairperson of TGax @ 20:03 (ET).**
   1. Introduction of the chairperson Osama Aboul-Magd (Huawei Technologies) and the secretary Yasuhiko Inoue (NTT).
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. Announcements
      5. Comment Assignment – Robert Stacey and all
         1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0292-00-00ax-comments-on-tgax-d4-0.xlsx>
         2. <https://mentor.ieee.org/802.11/dcn/19/11-19-0290-00-00ax-comments-on-tgax-ca-doc-r5.xlsx>
      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.
      3. 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/14/11-14-0629-21-0000-802-11-operations-manual.docx>
      8. Participation in IEEE 802 Meetings
   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 Yasuhiko ([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 asked people to state name and affiliation when addressing for the first time during the session.
   2. Chair memtioned that we still had 283 comments to resolve.
   3. Result of the WG Recirculation Ballot (#238) on the IEEE 802.11ax D4.0:
      1. Approval percentage is 92.2%.
      2. The number of comments is 1619.
      3. The 802.19 disapproved TGax CA document again (58 comments on the CA document).
6. **Comment Assignments**
   1. Comments are categorized based on the sub-clause or the technology.
   2. This is an initial assignments. A member who has an interest in resovling particular comments is to contact the owner.

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| **Count of CID** | **Column Labels** |  |  |
| **Owning Ad-hoc** | **EDITOR** | **(blank)** | **Grand Total** |
| **Bo Sun** | **20** |  | **20** |
| PHY TX/RXVECTOR | 20 |  | 20 |
| **Edward Au** | **15** |  | **15** |
| MIB | 12 |  | 12 |
| PICS | 3 |  | 3 |
| **Menzo Wentink** | **62** |  | **62** |
| Sounding protocol | 62 |  | 62 |
| **Ron Porat** | **6** |  | **6** |
| Disallowed subchannels | 6 |  | 6 |
| **(blank)** | **19** | **206** | **225** |
| (blank) | 10 | 206 | 216 |
| Submission Required | 1 |  | 1 |
| ER BSS | 8 |  | 8 |
| **Yongho Seok** | **37** |  | **37** |
| UL MU Power Capabilities | 9 |  | 9 |
| HLA Control | 3 |  | 3 |
| PPDU format selection | 25 |  | 25 |
| **Youhan Kim** | **39** |  | **39** |
| Packet extension | 5 |  | 5 |
| (blank) | 28 |  | 28 |
| PHY HE-LTF | 6 |  | 6 |
| **Editor** | **385** |  | **385** |
| Editorials | 385 |  | 385 |
| **Xiaogang Chen** | **11** |  | **11** |
| (blank) | 3 |  | 3 |
| PHY transmit procedure | 3 |  | 3 |
| PHY receive procedure | 5 |  | 5 |
| **Ming Gan** | **28** |  | **28** |
| Fragmentation | 28 |  | 28 |
| **Yan Zhang** | **31** |  | **31** |
| (blank) | 13 |  | 13 |
| PHY Math | 18 |  | 18 |
| **Tomoko Adachi** | **13** |  | **13** |
| Block Ack | 13 |  | 13 |
| **Laurent Cariou** | **99** |  | **99** |
| NDP feedback | 9 |  | 9 |
| Spatial Reuse | 24 |  | 24 |
| OPS | 5 |  | 5 |
| MU EDCA | 22 |  | 22 |
| 6GHz out of band discovery | 39 |  | 39 |
| **Kaiying Lv** | **3** |  | **3** |
| PPDU classification | 3 |  | 3 |
| **Guoqing Li** | **8** |  | **8** |
| Clause 4 | 3 |  | 3 |
| OM Control | 5 |  | 5 |
| **Alfred Asterjadhi** | **218** |  | **218** |
| TWT | 95 |  | 95 |
| Queue Size | 23 |  | 23 |
| 6 GHz inband discovery | 86 |  | 86 |
| BSS operation | 14 |  | 14 |
| **George Cherian** | **29** |  | **29** |
| Ack procedure | 29 |  | 29 |
| **ChaoChun Wang** | **20** |  | **20** |
| QTP | 20 |  | 20 |
| **Po-Kai Huang** | **35** |  | **35** |
| NAV | 9 |  | 9 |
| SM power save | 5 |  | 5 |
| MU-RTS | 17 |  | 17 |
| 6 GHz HE beacon | 4 |  | 4 |
| **Abhishek Patil** | **169** |  | **169** |
| MU operation | 51 |  | 51 |
| Multi-BSS | 26 |  | 26 |
| Trigger frame format | 32 |  | 32 |
| UORA | 30 |  | 30 |
| (blank) | 1 |  | 1 |
| BSS color | 19 |  | 19 |
| Scanning | 10 |  | 10 |
| **Liwen Chu** | **56** |  | **56** |
| A-MPDU operation | 52 |  | 52 |
| 6 GHz multi-frame | 4 |  | 4 |
| **Osama Aboul-Magd** | **8** |  | **8** |
| Annex G | 8 |  | 8 |
| **Huizhao Wang** | **5** |  | **5** |
| Duration-based RTS/CTS | 5 |  | 5 |
| **Zhou Lan** | **1** |  | **1** |
| Submission Required | 1 |  | 1 |
| **Jianhan Liu** | **14** |  | **14** |
| PHY HE-SIG-A | 14 |  | 14 |
| **Tianyu Wu** | **8** |  | **8** |
| Editorials | 3 |  | 3 |
| (blank) | 5 |  | 5 |
| **Kome Oteri** | **3** |  | **3** |
| (blank) | 3 |  | 3 |
| **Ross Yu Jian** | **60** |  | **60** |
| PHY HE-SIG-B | 60 |  | 60 |
| **Sameer Vermani** | **10** |  | **10** |
| PHY Intro | 9 |  | 9 |
| (blank) | 1 |  | 1 |
| **Lisa Ward** | **1** |  | **1** |
| Submission Required | 1 |  | 1 |
| **Grand Total** | **1413** | **206** | **1619** |

1. **AOB**
   * 1. None
2. **Adjournment**
   1. No time to go through the rest of the agenda items.
   2. Meeting adjourned at 21:24 (ET).
3. **List of Attendees**

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| --- | --- | --- |
|  | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Tomoko Adachi | Toshiba |
| 3 | Stephane Baron | Canon Research |
| 4 | Ming Gan | Huawei Technologies |
| 5 | Po-Kai Huang | Intel |
| 6 | Yasu Inoue | NTT |
| 7 | Youhan Kim | Qualcomm |
| 8 | Jianhan Liu | MediaTek |
| 9 | Abhishek Patil | Qualcomm |
| 10 | Al Petrick | InterDigital Communications |
| 11 | Kiseon Ryu | LG Electronics |
| 12 | Sigurd Schelstraete | Quantenna Communications |
| 13 | Kandara Srinivas | Samsung |
| 14 | Rober Stacey | Intel |
| 15 | Bo Sun | ZTE |
| 16 | Yusuke Tanaka | Sony |
| 17 | Tianyu Wu | Samsung |
| 18 | Rui Feng Xue | Huawei Technologies |
| 19 | Yan Zhang | Marvell |
| 20 |  |  |

# Teleconference on Thursday, March 8th, 2019, 10:00 AM – 12:00 (ET)

TGax teleconference on March 8th, 2019 was cancelled.