IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TGax teleconference minutes – 20141009 | | | | |
| Date: 2014-10-09 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yasuhiko Inoue | NTT | 1-1 Hikari-no-oka, Yokosuka, Kanagawa 239-0847 Japan | +81 46 859 5097 | inoue.yasuhiko@lab.ntt.co.jp |

Abstract

This document contains the meeting minutes of the IEEE 802.11 TGax teleconference on 2014-10-09.

**Teleconference time: Thursday, October 9th, 2014, 10:00 AM (ET)**

**Join the meeting:**<https://join.me/IEEE802.11>   
  
On a computer, use any browser with Flash. Nothing to download.   
On a phone or tablet, launch the [join.me app](https://join.me/app) and enter meeting code: **IEEE802.11**   
  
**Join the audio conference:**  
Dial a phone number and enter access code, or connect via internet.   
  
**By phone:**  
United States - Detroit, MI **+1.734.746.0035**   
United States - Hartford, CT **+1.860.970.0010**   
United States - Los Angeles, CA **+1.213.226.1066**   
United States - New York, NY **+1.646.307.1990**   
United States - Saugus, MA **+1.781.666.2350**   
United States - Thousand Oaks, CA **+1.805.309.5900**   
Access Code **808-571-868#**   
  
[Other international numbers available](https://join.me/intphone/808571868/0)   
  
**By computer via internet:**  
Join the meeting, click the phone icon and select 'Call via internet'. A small download might be required.   
  
[Start time by time zones](https://join.me/timezone/1412863200000/1412870400000)

**<Proposed Agenda>**

* Call the meeting to order
* Reminder
  + IEEE 802 and 802.11 IPR policies and procedures
  + Attendance Reminder (send an e-mail to inoue.yasuhiko@lab.ntt.co.jp and/or osama.aboulmagd@huawei.com)
* Few words about San Antonio Meeting.
* Presentation by Igor Kim (ETRI):
  + 14/1342r0, “MAC Calibration Results,” available from

https://mentor.ieee.org/802.11/dcn/14/11-14-0779-00-00ax-dsc-practical-usage.pptx

* + 14/1343r0, “Multicast Scenarios for MAC Calibration,” available from

https://mentor.ieee.org/802.11/dcn/14/11-14-1343-00-00ax-multicast-scenarios-for-mac-calibration.pptx

* AoB
* Adjourn

<**Minutes>**

**Agenda Item #1: Call the meeting to order**

Osama Aboul-Magd, the Chairperson of the IEEE 802.11 TGax, called the meeting to order at 2014-10-09 at 10:00 AM Eastern Time.

**Agenda Item #2: Agenda Setting**

<Proposed Agenda>

1. Call the meeting to order
2. Reminder
   * IEEE 802 and 802.11 IPR policies and procedures
   * Attendance Reminder (send an e-mail to inoue.yasuhiko@lab.ntt.co.jp and/or osama.aboulmagd@huawei.com)
3. Few words about San Antonio Meeting.
4. Presentation by Igor Kim (ETRI):
   * 14/1342r0, “MAC Calibration Results,” available from

https://mentor.ieee.org/802.11/dcn/14/11-14-0779-00-00ax-dsc-practical-usage.pptx

* + 14/1343r0, “Multicast Scenarios for MAC Calibration,” available from

https://mentor.ieee.org/802.11/dcn/14/11-14-1343-00-00ax-multicast-scenarios-for-mac-calibration.pptx

1. AoB
2. Adjourn

Chair asked for any changes and modifications to the proposed agenda. No changes were made.

The agenda was approved.

**Agenda item #3: Reminder**

* **Chair asked people to state name and affiliation when addressing for the first time in the session.**
* **IEEE 802 and 802.11 IPR Policies and Procedures**

Chair reminded that the meeting is operating under IEEE 802 and IEEE 802.11 Policies and Procedures.

* <http://standards.ieee.org/develop/policies/antitrust.pdf>
* [IEEE Code of Ethics](http://www.ieee.org/about/corporate/govermance/p7-8.html)
* <http://standards.ieee.org/faqs/affiliation.html>
* <http://standards.ieee.org/board/pat/loa.pdf>
* <http://standards.ieee.org/board/pat/index.html>
* <http://standards.ieee.org/board/pat/pat-slideset.ppt>
* <http://standards.ieee.org/board/pat/faq.pdf>
* <http://www.ieee802.org/policies-and-procedures.pdf>
* <http://www.ieee802.org/PNP/2008-11/LMSC_OM_approved_081114.pdf>

The Chairperson calls for potential essential patents. There was no response.

* **Attendance**

The chair also reminded that the attendees to send e-mail to [inoue.yasuhiko@lab.ntt.co.jp](mailto:inoue.yasuhiko@lab.ntt.co.jp) and [osama.aboulmagd@huawei.com](mailto:osama.aboulmagd@huawei.com) to record the attendance in the minutes.

**Agenda Item #4: Announcements**

* **San Antonio meeting:**
  + 9 meeting slots planned for the TGax.
  + Chair will issue call for presentations shortly. Chair also asked people to prepare submission before the first TGax meeting of the November 2014 session.

**Agenda Item #5: Presentation by Igor Kim**

**5.1** 11-14/1342r0, “MAC Calibration Results,”

* Igor Kim (ETRI) presented “MAC Calibration Results,” based on the submission 14/1342r0.
  + Summary
    - MAC simulation results for Box 3 calibration presented. The results are compared with the results from other companies.
    - The results are pretty much aligned with the results of other companies.
    - Some clarification discussed such as CWmin, the effect of propagation delay.
  + Discussions
    - Chair asked the presenter to avoid using companies’ names on the slides.
    - Chair also asked the presenter’s plans to resolve the issues in slides 22 and 23.
      * For the first issue: Simone and Gwen will check the document offline.
      * For the second point: A member mentioned that propagation delay is already considered in the MAC timing relation diagram.
      * For the third point: We need discussion during the face-to-face meeting.

**5.2** Igor Kim (ETRI) presented “Multicast Scenarios for MAC Calibration,” based on 14/1343r0.

* + Summary
    - Multicast is one of the most important features for 802.11ax. Two scenarios for multicast calibration proposed.
    - Scenario 6: Basic multicast scenario with (i) legacy multicast protocol, (ii) Groupcast with retry (802.11aa), (iii) Directed Multicast (802.11v).
    - Scenario 7: Multicast in OBSS environment. GCR is assumed.
  + Discussions
    - A member asked for the difference between the unicast scenario and multicast scenario. 🡪 The answer was consideration for the multicast protocol. The member commented that there will not be a big difference between multicast and unicast scenarios if the intention is evaluation of the overhead. The member also commented the use of RIFS is not allowed in 802.11ac and should be other value.
    - Another member asked if there is a special reason to have calibration scenario for the multicast transmissions. The answer was the importance of multicast feature in 802.11ax. The member commented calibration should be limited least features.
    - There was a comment that a member cannot find significance of having multicast scenario for calibration. He agreed that multicast is a very important feature for 802.11ax. But proposed scenarios will not provide additional meaning for calibration purposes.
  + Straw Poll
    - There was related straw poll with this presentation. Chair suggested straw poll during the face-to-face meeting. The straw poll was deferred.

**Agenda Item #6: AOB**

* + No other item to discuss during this call.
  + Chair asked if there is any objection to adjourn. 🡪 No objection.

**Agenda Item #7: Adjourn:**

The TGax teleconference adjourned at 10:58 AM (ET).

<**Attendees>**

|  |  |  |
| --- | --- | --- |
| **#** | **Name** | **Affiliation** |
| 1 | Osama Aboul-Magd | Huawei |
| 2 | Philip Barber | Huawei |
| 3 | Gwen Barriac | Qualcomm |
| 4 | Minho Cheong | NEWRACOM |
| 5 | Woo Hau Chin | Toshiba |
| 6 | Sayantan Choudhury | Nokia |
| 7 | Yasu Inoue | NTT |
| 8 | Kaushik Josiam | Samsung |
| 9 | Hyunduk Kang | ETRI |
| 10 | Igor Kim | ETRI |
| 11 | Akira Kishida | NTT |
| 12 | Gwangzeen Ko | ETRI |
| 13 | Massinissa Lalam | Sagemcom |
| 14 | Simone Merlin | Qualcomm |
| 15 | Adrian Stephens | Intel |
| 16 | Esa Tuomaala | Nokia |
| 17 | Lei Wang | Marvell |
| 18 | Xiaofei Wang | InterDigital |
| 19 | Eric Wong | Apple |
| 20 |  |  |

Total 30 people were on the call.