IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGax, MAC Ad hoc  May 2015 Vancouver TGax MAC Ad hoc Meeting Minutes | | | | |
| Date: 2015-05-11 | | | | |
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Abstract

TGax, MAC Ad Hoc meeting minutes from the IEEE 802.11 Vancouver session, May 10th – 15th, 2015.

**IEEE 802.11 Task Group ax, MAC Ad hoc**

**May 2015 Vancouver Meeting**

**Hyatt Hotel, Vancouver, Canada**

**January 10th – 15th, 2015**

**Monday, May 11th, 2015, PM1 TGax Session (1:30-3:30)**

1. **The meeting called to order at 1:30pm by Brian Hart (Cisco Systems), the co-chair of the TGax MAC Ad hoc**
   1. About 46 people are in the room.
2. **Announcement**
   1. Agenda Doc.11-15/599 on the server. Rev. 0 is the working document.
   2. Meeting Protocol: The Chair asked to state name and affiliation when speaking for the first time.
   3. Attendance reminder.
      1. The attendance server: https://imat.ieee.org/
3. **The chair reviewed the mandatory 5 slides of P&P.**
   1. Instructions from the WG Chair. [reviewed~~, did not review~~]
   2. Participants, Patents, and Duty to Inform. [reviewed~~, did not review~~]
   3. Patent Related Links. [reviewed~~, did not review~~]
   4. Call for potentially essential patents.
      1. Chair asked if anyone is aware of potentially essential patents

[Asked. ~~Did not ask~~]

* + 1. Potentially essential patents

[None reported~~. Reported as follows~~]

* 1. Other Guidelines for IEEE WG Meetings.

1. **The Chair called for presentations**
   1. No change to the agenda.
2. **The Chair asked for approval of the agenda**
   1. No objection raised
3. **Presentation of contributions**
   1. **“Duration and MAC Padding for UL MU PPDUs”**
      1. 15/617r0, Gang Ding (Qualcomm), presented by Simone Merlin (Qualcomm)
      2. Strawpoll 1: “Would you agree to add the following text to the SFD: UL OFDMA PPDUs shall end at the time indicated in trigger frame, by adding padding if necessary”
         1. Results: Y/N/A: 31/0/9. Strawpoll achieves >=75% support; will be passed to TGax-Full for a motion
      3. Strawpoll 2: “Would you agree to add the following text to the SFD: The MAC padding for UL MU OFDMA PPDUs is done by using the 11ac A-MPDU padding procedure”
         1. Results: Y/N/A: 28/0/10. Strawpoll achieves >=75% support; will be passed to TGax-Full for a motion
   2. **“Random Access with Trigger Frames using OFDMA”**
      1. 15/604r0, Chittabrata Ghosh (Intel)
      2. Strawpoll 1: “Do you agree to add to the spec framework? *The spec shall define a Trigger frame that allocates resources for random access.*”
         1. Results: Y/N/A: 28/2/14. Strawpoll achieves >=75% support; will be passed to TGax-Full for a motion
   3. **“UL OFDMA Bandwidth”**
      1. 15/615r0, Liwen Chu (Marvell)
      2. Strawpoll 1: “Do you agree to add the following to the SFD: UL OFDMA MPDU/A-MPDU is the acknowledgment of the trigger frame.

* When the AP receives UL MPDU/A-MPDU correctly from at least one STA indicated by trigger frame, the frame exchange initiated by the trigger frame is successful
* An AP shall not allocate UL subchannel in any 20MHz channel that is not occupied by the Trigger frame. In each 20MHz channel occupied by the Trigger frame, there is at least one allocated subchannel”
  + - 1. Results: Y/N/A: 27/1/9. Strawpoll achieves >=75% support; will be passed to TGax-Full for a motion
  1. **“Multi-STA BA for SU Transmissions”**
     1. 15/567r1, Xiaofei WANG (InterDigital)
     2. Strawpoll 1: “Do you agree to add the following to the SFD: x.y.z The spec shall define a mechanism to use Multi-STA BA frame to acknowledge SU transmissions”
        1. Results: Y/N/A: 3/2/29. Strawpoll does not achieve >=75% support
  2. **“Further consideration for Multi-STA Block ACK frame”**
     1. 15/626r1, Jeongki Kim (LG Electronics)
     2. Strawpoll 1: “Do you agree to modify the sub-clause 7.2 in 11ax SFD as follows?

7.2 Multi-STA BA

If B11 in the per-TID info field is set, then the BlockAck bitmap and the SC subfields in the BA Info field are not present and this BA Info field indicates an ACK ~~for~~ of either single MPDU or all MPDUs carried in the eliciting PPDU that was transmitted by the STA whose ~~the STA with~~ AID is indicated in the per-TID info field”

* + - 1. Results: Y/N/A: 22/0/9. Strawpoll achieves >=75% support; will be passed to TGax-Full for a motion
  1. **“Multi-STA Block ACK Protection”**
     1. 15/611r0, Jinsoo Ahn (Yonsei Univ.)
     2. Strawpoll 1 (testing the waters): “Do you agree 802.11ax needs to provide a mechanism for Multi-STA BA to be protected from hidden node STAs.”
        1. Results: Y/N/A: 8/1/24

1. The Chair adjourned the MAC ad hoc session for the week.