IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGax, MU Ad hoc  September 2016 TGax Meeting Minutes | | | | |
| Date: 2016-09-14 | | | | |
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Abstract

The meeting minutes from the MU Ad Hoc group meeting of TGax in the IEEE 802.11 Warsaw session September 12th – 16th, 2016.

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

**Warwaw, Poland**

**September 12th – 16th, 2016**

**MU Adhoc Session #1**

**Tuesday, September 13th, 2016, AM2 TGax Session (10:30 – 12:30)**

1. **The meeting called to order by Sigurd Schelstraete (Quantenna), the co-chair of the TGax MU Ad hoc**
2. **Announcement**
   1. Agenda Document 11-16/1244r0 is on the server.
   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 identified 12 presentations assigned by the TGax chair to be treated in MU Ad hoc**
   1. No new presentations, other than those listed in the agenda, were requested.
2. **The Chair asked for approval of the agenda**
   1. No objection raised
3. **Presentation of contributions**
   1. **11-16/773r4 Comment Resolution Section 25.6 HE Sounding (15 CIDs belonging to Editor)**

* **SP: Do you agree to approve resolutions of CIDs,** **55, 1000, 1221, 1915, 2234, 802, 1695, 1222, 182, 971, 2713, 702, 1916, 2233, 223 in doc. 11-16/773r4:**

**No objection.**

**SP passes**

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| * 1. **11-16/1152r0** | **(11-16/1199r3) DL OFDMA Ack rule for uplink trigger based PPDU** |
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* **SP: Do you agree to add the following text after the end of the first paragraph of section 10.3.2.11.3 of the draft spec:**

Specifically, when an AP transmits an immediate acknowledgement in HE MU PPDU in response to (A-)MPDU sent in HE trigger-based PPDU, the AP should send it within the 20 MHz channel(s) where the pre-HE modulated fields of the HE trigger-based PPDU sent by the STA are located. The immediate acknowledgement is either Block Ack frame (or Ack frame) or Multi-STA Block Ack frame.

**No objection.**

**SP passes**

* 1. **11-16/1158r2 Comment resolution on OFDMA random access procedure**
* **SP: Do you agree to approve resolutions of CIDs, 787, 2471 in doc. 11-16/1158r2:**

**No objection.**

**SP passes**

* 1. **11-16/1162r1 Comment Resolution on Retransmission of OFDMA Random Access**
* **SP: Do you agree to approve resolutions of CIDs, 49, 51, 181, 440, 442, 601, 602, 1198, 2291, 2385, 2684 in doc. 11-16/1162r1:**

**No objection.**

**SP passes**

* 1. **11-16/1163r0 Concluding OFDMA M-BA transmission**
* **SP: Do you support adding the following paragraph after the first paragraph of section 25.4.1:**

 A HE AP should only transmit group addressed M-BA in the DL MU PPDU to HE non AP STA *n* on the (broadcast RU) RU (26/52/106/242/484/996) that includes the RU used for receiving the immediate preceding HE Trigger Based PPDU from STA *n*. There shall be no more than one M-BA that is addressed to multiple recipients carried in a broadcast RU of the DL MU PPDU.

**No objection.**

**SP passes**

* 1. **11-16/1177r2 comment-resolution-TXOP-truncation**
* **SP: Do you agree to approve resolutions of CIDs, 18, 204, 626, 673, 737, 738, 810, 1440, 1660, 2193, 2283, 2447, 2613, 2614, 992 in doc. 11-16/1177r2:**

**No objection.**

**SP passes**

* 1. **11-16/1239r1 Trigger Frame\_MUBAR\_part1**
* **SP: Do you agree to approve resolutions of CIDs, 5, 108, 512, 566, 567, 615, 665, 973, 1308, 1815, 2220, 2252, 2423, 2585, 2586 in doc. 11-16/1239r1:**

**No objection.**

**SP passes**

1. **The chair recessed the session at 12:25 pm**

**MU Adhoc Session #2**

**Wednesday, September 14th, 2016, PM2 TGax Session (4:00 – 6:00 PM)**

1. **The meeting called to order by Sigurd Schelstraete (Quantenna), the co-chair of the TGax MU Ad hoc**
2. **Announcement**
   1. Agenda Document 11-16/1244r0 is on the server.
   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~~]
      2. Potentially essential patents
         * + [None reported. ~~Reported as follows~~]
   5. Other Guidelines for IEEE WG Meetings.
4. **The Chair identified 4 presentations to be treated in MU Ad hoc**
   1. Two presentations (11-16/1183, 11-16/1173) moved (added) from MAC, one presentation (11-16/1241) moved (deleted) to MAC, and one presentation (11-16/929) changed to be presented (on the previous teleconference)
5. **The Chair asked for approval of the agenda**
   1. No objection raised
6. **Presentation of contributions**
   1. **11-16/1183r3 MU-RTS/CTS Rate Comment Resolution**

* **SP: Do you agree to approve resolutions of CIDs, 863, 219, 411, 2380, 2609, 671, 2115, 986, and 734 in 11-16/1183r3.**

**No objection.**

**SP passes**

* 1. **11-16/1224r0 UL OFDMA-based Random Access Parameter Set (RAPS) element**

**Slides presented.**

* 1. **11-16/1222r1 Comment Resolution on UL OFDMA Random Access**
* **SP: Do you agree to approve resolutions of CIDs, 47, 48, 179, 180, 450, 600, 701, 801, 820, 988, 1084, 1199, 1201, 1913, 1914, 2384 in doc. 11-16/1222r1**

**No objection.**

**SP passes**

* 1. **11-16/1173r2 Comment Resolution for Two NAVs - Part II**
* **SP: Do you agree to approve resolutions of CIDs, 2316, 631, 811, 2905, 2257, 632, 205, 966 in doc. 11-16/1173r2**

**No objection.**

**SP passes**

1. **The chair adjourned the session at 5:40 pm**