IEEE P802.11
Wireless LANs

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| IEEE 802.11 TGax, MU Ad hocMarch 2015 Berlin TGax MU Ad hoc Meeting Minutes |
| Date: 2015-03-11 |
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Abstract

The meeting minutes from the MU Ad Hoc group meeting of TGax in the IEEE 802.11 Berlin session, March 9th – 13th, 2015.

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

**March 2015 Berlin Meeting**

**Estrel Hotel, Berlin, Germany**

**January 12th – 16th, 2015**

**Wednesday, March 11th, 2015, AM1 TGax Session (8:00-10:00)**

1. **The meeting called to order by Sigurd Schelstraete (Quantenna), the co-chair of the TGax MU Ad hoc**
	1. About 50 people are in the room.
2. **Announcement**
	1. Agenda Doc.11-15/430 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 new presentations, other than those listed in the agenda, were requested.

1. **The Chair asked for approval of the agenda**
	1. No objection raised
2. **Presentation of contributions**
	1. “OFDMA Non-contiguous Channel Utilization”
		1. 15/353r0, Jinsoo Ahn (Yonsei)
		2. Strawpoll
			1. Do you agree to add the following to the TG Specification Frame work document?
* 3.y.z The amendment shall define a mechanism to support non-contiguous channel transmission.
	+ - 1. Vote: Y/N/A: 34/0/44
	1. “Bandwidth granularity on UL-OFDMA data allocation”
		1. 15/354r0 Woojin Ahn (Yonsei University)
		2. Strawpoll
			1. Do you agree to add the following to the TG Specification Framework document?
* x.y.z. HE-PPDU for UL-OFDMA shall support UL data transmission below 20MHz for an HE STA
	+ - 1. Vote: Y/N/A : 11/0/many
	1. “UL MU Synchronization Requirements”
		1. 15/363r0, Yonggang Fang (ZTE)
		2. Strawpoll 1
			1. Do you agree to add the following to the TG Specification Framework document?
* X.y.z Requirement of Carrier Frequency Accuracy

For 5GHz band, the accuracy of transmit carrier frequency of STA (and AP) that support UL MU shall be within ±N1 ppm (TBD).

For 2.4GHz band, the accuracy of transmit carrier frequency of STA (and AP) that support UL MU shall be within ±N2 ppm (TBD).

* + - 1. Vote: Y/N/A=4/9/43
		1. Strawpoll 2
			1. Do you agree to add the following to the TG specification framework document:

X.y.z Requirement of Carrier Frequency Synchronization

For 5GHz band, the carrier frequency synchronization error between the carrier frequency of STA and the carrier frequency of signal received from the AP shall not exceed ±N3 ppm (TBD) T1 (TBD) usec time after the start of the PPDU.

For 2.4GHz band, the carrier frequency synchronization error between the carrier frequency of STA and the carrier frequency of signal received from the AP shall be within ±N4 ppm (TBD) T2 (TBD) usec time after the start of the PPDU.

* + - 1. Vote: Y/N/A=7/13/Many
		1. Strawpoll 3
			1. Do you agree to add the following to the TG specification framework document:

X.y.z Timing Synchronization Requirement

The symbol timing synchronization between the transmit symbol boundary of STA and the received symbol boundary from the AP shall be aligned within M ns (TBD) for a given CP length.

* + - 1. Vote: Y/N/A : 6/14/Many
	1. “Considerations on UL MU resource scheduling”
		1. 15/377r0, Leonardo Lanante (Kyushu Institute of Technology)
		2. Strawpoll
			1. Do you agree that TGax should support a resource block sharing as defined in slide 10?
			2. Vote: 6/10/Many
1. The Chair announced the end of the MU ad hoc session.