IEEE P802.11
Wireless LANs

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| IEEE 802.11 TGax, MAC Ad hocSeptember 2016 Warsaw TGax MAC Ad hoc Meeting Minutes |
| Date: 2016-09-13 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
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Abstract

TGax, MAC Ad Hoc meeting minutes from the IEEE 802.11 Warsaw session, September 12th – 16th, 2016.

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

**September 2016 Warsaw Meeting**

**Grand Hyatt Manchester**

**September 12th – 16th, 2016**

**Monday, September 12th, 2016, PM2 TGax Session (16:00-18:30PM)**

1. **The meeting called to order at 10:30am by Reza Hedayat (Newracom), the co-chair of the TGax MAC Ad hoc**
	1. About 47 people are in the room.
2. **Announcement**
	1. Agenda Doc.11-16/1247 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 additional contributions were requested to be added to the list of contributions.
2. **The Chair asked for approval of the agenda**
	1. No objection raised
3. **Presentation of contributions**
	1. **11-16/864r4, “d0.1 comment resolution on clause 6”**
		1. Presented by Yasuhiko Inoue (NTT)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.4 the comment resolutions in document 16/864r5 for CIDs: 83, 1227, 1228, 1229, 1238, 1239, 1240, 2292, 2293, 2294, 2304, 2305, 2306, 1125, 1230, 1241, 1596,1869, 2420, 1123”
			2. Results: Strawpoll passed with no objection
	2. **11-16/869r1, “Comment resolution section 9.3 TWT”**
		1. Presented by Zhou Lan (Broadcom)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.4 the comment resolutions in document 16/864r5 for CIDs: 1315, 2424, 2589, 2590, 2591”
			2. Results: Strawpoll passed with no objection
	3. **11-16/881r0, “Comment resolution on ROMI”**
		1. Presented by Jayh Park (LGE)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/881r1 for CIDs: 2, 60, 61, 184, 185, 207, 445, 446, 655, 685, 775, 856, 1223, 1224, 1562, 1565, 1568, 1569, 1572, 1573, 1574, 2200, 2236, 2238, 2239, 2328, 2330, 2657”
			2. Results: Strawpoll passed with no objection
	4. **11-16/882r0, “Comment resolution on TOMI”**
		1. Presented by Alfred Asterjadhi (Qualcomm)
		2. Strawpoll deferred to make additional changes
	5. **11-16/883r1, “Comment resolution for CID152”**
		1. Presented by Jayh Park (LGE)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/883r1 for CIDs: 152”
			2. Results: Strawpoll passed with no objection

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

1. **The meeting called to order at 10:30am by Reza Hedayat (Newracom), the co-chair of the TGax MAC Ad hoc**
	1. About 37 people are in the room.
2. **Announcement**
	1. Agenda Doc.11-16/1247 on the server. Rev. 0 is the working document.
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	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 additional contributions were requested to be added to the list of contributions.
2. **The Chair asked for approval of the agenda**
	1. No objection raised
3. **Presentation of contributions**
	1. **11-16/884r03, “Spec. Text for HE Operation element and AID Assign Rule”**
		1.
		2. Presented by Tianyu (MediaTek)
		3. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.4 the proposed text in document 16/884r3.”
			2. Results: Strawpoll passed with no objection
	2. **11-16/961r2, “Consideration on Multi-STA BlockAck Optimization”**
		1. Presented by Hanseul Hong (Yunsei Univ.)
		2. Strawpoll 1:
			1. “**Do you agree to add to the spec draft?**

9.3.1.9.7 Multi-STA BlockAck variant

If the Ack Type subfield is 1, the AID value of the Per AID TID Info field is set to 1ess than 2047, and the TID subfield of the Per AID TID Info field is 14, then the Block Ack Starting Sequence Control and Block Ack Bitmap are not present and the Per STA Info field acknowledges successful reception of all the MPDUs carried in the eliciting A-MPDU. The Ack Type field is not set to 1 when responding to a BlockAckReq frame or an MU-BAR frame. If the ACK Type field is 1, the AID value of the Per AID TID Info subfield is set to 2047 and the TID value of the Per AID TID Info subfield is set to 14, then the Block Ack Starting Sequence Control and Block Ack Bitmap are not present and the single Per STA Info field indicates the acknowledgement of successful reception of all the A-MPDUs of all the STAs elicited by the trigger frame.”

* + - 1. Results: Y/N/A: 4/7/15. Strawpoll failed.
	1. **11-16/924r0, “NAV resetting with RTS/MU-RTS” and 11-16/925r0 “Spec text on NAV resetting with RTS/MU-RTS”**
		1. Presented by Weimin Xing (ZTE)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.4 the proposed text in document 16/925r1.”
			2. Results: Strawpoll passed with no objection
	2. **11-16/941r0, “CR HE Fragmentation - part 2”**
		1. Presented by Ming Gan (Huawei)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/941r0 for CIDs: 1477, 675, 423, 166, 1823, 2270, 2268, 2254, 2198, 1824, 1818, 1800, 1796, 1663, 1491, 1489, 1488, 2630”
			2. Results: Strawpoll passed with no objection
	3. **11-16/942r1, “CR Service Field”**
		1. Presented by Ming Gan (Huawei)
		2. Since the CIDs belong to the PHY ad hoc, the presenter was asked to re-present the CR contribution in PHY ad hoc.
	4. **11-16/962r5, “EDCA rules-follow up 1”**
		1. Presented by Jing Ma (NICT)
		2. Strawpoll 1:
			1. **“**Do you agree to add the following sentence to the section 25.5.2.2.3 AP access procedures for UL MU operation on page 92 line 31:
* An AP may send the Trigger frame using any access category and follows the rules defined in 10.22.2 (HCF contention based channel access (EDCA)) for obtaining and sharing the TXOP.”
	+ - 1. Results: 6/1/13
	1. **11-16/998r0, “Rules for 2 EDCA parameters”, 11-16/1180r0, “Proposed text changes for MU EDCA parameters”**
		1. Presented by laurent cariou (Intel)
		2. Strawpoll 1:
			1. “Do you agree to accept the spec changes proposed in document 6/1180r0”
			2. Results: Strawpoll passed with no objection
	2. **11-16/881r2, “Comment resolution on ROMI”**
		1. Presented by Jayh Park (LGE)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/881r2 for CIDs: 2, 60, 61, 184, 185, 207, 445, 446, 655, 685, 775, 856, 1223, 1224, 1562, 1565, 1568, 1569, 1572, 1573, 1574, 2200, 2236, 2238, 2239, 2328, 2330, 2657”
			2. Results: Strawpoll passed with no objection
			3. Note this strawpoll refers to the same set of CIDs as in 16/881r1 (which was strawpolled during the previous sessions on Monday, PM2). So for motion it suffices to motion this strawpoll..

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	1. No objection raised
3. **Presentation of contributions**
	1. **11-16/1110r0, “comment resolution on subclause 10.22.2 and 10.22.4”**
		1. Presented by Yongho Srok (Newracom)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/1110r0 for CIDs: 2468, 2470, 2448, 2450, 2451, 809”
			2. Results: Strawpoll passed with no objection
	2. **11-16/1131r0, “comment resolution on mu ack policy”**
		1. Presented by Yongho Srok (Newracom)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/1110r0 for CIDs:”
			2. Results: Strawpoll passed with no objection
	3. **11-16/1157r0, “Comment resolution on SU\_MU ACK procedures”**
		1. Presented by Jeongki Kim (LGE)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/1157r0 for CIDs: 129, 130, 131, 132, 405, 406, 407, 408, 672”
			2. Results: Strawpoll passed with no objection
	4. **11-16/1181r1, “CW value after UL MU procedure”**
		1. Presented by Woojin Ahn (Willus)
		2. Strawpoll 2:
			1. “Do you agree to the spec test changes as below:
			2. **EDCA backoff procedure**

When an HE STA successfully receives the corresponding acknowledgement frame in response to the MPDU sent in HE trigger based PPDU, the backoff for the associated EDCAF resumes the backoff timer countdown. If the remaining backoff timer reaches zero and no data exists for that AC, the CW[AC] value shall be set to CWmin[AC]

”

* + - 1. Results: Y/N/A: 6/19/7. Strawpoll failed.
	1. **11-16/1184r0, “A-MPDU 25.10 25.10.2 comment resolution”**
		1. Presented by Liwen Chu (Marvell)
		2. Strawpoll 1:
* “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/1184r0 for CIDs: 2258, 2446, 1588, 1645”
	+ - 1. Results: Strawpoll passed with no objection
	1. **11-16/1188r0, “MAC Capabilities in HE Capabilities IE”**
		1. Presented by Alfred Asterjadhi (Qualcomm)
		2. Strawpoll 1:
			1. “Do you agree to add the subfields below to the HE Capabilities IE?”

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   | +HTC-HE Support | HE Link Adaptation | All AckSupport | 32 bit BA Bitmap Support | MU Cascading Supported | Broadcast TWT Supported | Ack-enabled Multi-TID Aggregation Support | Group Addressed Multi-STA BlockAck In DL MU Support  | OMI A-Control Support | OFDMA RA Support  |
| Bits: | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

* + - 1. Results: Strawpoll passed with no objection
		1. Strawpoll 2:
			1. “Do you support that:
		- The reception of Action (ACK) frame aggregated with Data is optional.
		- The reception of acknowledgement frames (ACK, BA, M-BA) aggregated with Data is optional (indicated via MU Cascading Supported bit).
		- The reception of Basic variant Trigger frame aggregated with Data is mandatory.”

Results: Strawpoll passed with no objection

* 1. **11-16/xyzr0, “TITLE”**
		1. Presented by NAME(COMPANY)
		2. Strawpoll 1:
			1. “Do you agree to add to the 11ax specification D0.1 the comment resolutions in document 16/xyzr0 for CIDs: …”
			2. Results: Y/N/A: 0/0/0
		3. Strawpoll 2:
			1. “Do you agree to add to the 802.11ax draft specification v0.2 the following text : “STRAWPOLL TEXT”
			2. Results: Y/N/A: 0/0/0