IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGax, MAC Ad hoc  November 2016 TGax MAC Ad hoc Meeting Minutes | | | | |
| Date: 2016-11-07 | | | | |
| Author(s): | | | | |
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Abstract

TGax, MAC Ad Hoc meeting minutes from the IEEE 802.11, November 6th – 11th, 2016.

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

**November 2016 Meeting, San Antonio, TX**

**November 6th – 11th, 2016**

**Monday, November 7th, 2016, PM2 TGax Session (16:00-18:30PM)**

1. **The meeting called to order at 16:00pm by Reza Hedayat (Newracom), the co-chair of the TGax MAC Ad hoc**
   1. About 65 people are in the room.
2. **Announcement**
   1. Agenda Doc.11-16/1478 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. **11-16/1238r0, “Setting Quiet time period - text”**
      1. Presented by Chao-Chun Wang (MediaTek)
   2. **11-16/1352r0, “CC23 MAC CR Miscellaneous Part-1”**
      1. Presented by Yongho Seok (Newracom)
      2. Strawpoll 1:
         1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1352r1 for CIDs: 1920, 2441, 2671, 2262, 2396, 2454, 2604, 2605, 1734, 118, 691, 822, 1353”
         2. Results: Strawpoll passed without objection
   3. **11-16/1354r0, “CC23 CR Annex C”**
      1. Presented by Yongho Seok (Newracom)
      2. Strawpoll 1:
         1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1354r0 for CIDs: 150, 1020, 2201”
         2. Results: Strawpoll passed without objection
   4. **11-16/1355r0, “Spec text for 10.22.2.5 and 3.2”**
      1. Presented by Yongho Seok (Newracom)
      2. Strawpoll 1:
         1. “Do you agree to update the 11ax specification D0.5 according to the instructions in document 16/1355r0.”
         2. Results: Strawpoll passed without objection
   5. **11-16/1358r0, “CC0-Remaining CIDs on BA”**
      1. Presented by Alfred Asterjadhi (Qualcomm)
      2. Strawpoll 1:
         1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1358r0 for CIDs: 135, 658, 2389”
         2. Results: Strawpoll passed without objection
   6. **11-16/1359r0, “CC0-Some remaining CIDs related to TWT”**
      1. Presented by Alfred Asterjadhi (Qualcomm)
      2. Strawpoll 1:
         1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1359r0 for CIDs: 385, 419, 458, 459, 514, 630, 741, 743, 2844, 2846”
         2. Results: Strawpoll passed without objection
   7. **11-16/1360r0, “CC0-HE variant HT control - Some Remaining CIDs”**
      1. Presented by Alfred Asterjadhi (Qualcomm)
      2. Strawpoll 1:
         1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1360r1 for CIDs: 93, 824, 819, 989, 1067, 2388, 147, 161 ”
         2. Results: Strawpoll passed without objection
   8. **11-16/1362r1, “CC0-Complete RTS\_Enablement”**
      1. Presented by Alfred Asterjadhi (Qualcomm)
      2. Strawpoll 1:
         1. “Do you agree to update the 11ax specification D0.5 according to the instructions in document 16/1362r1”
         2. Results: Strawpoll passed without objection
   9. **11-16/1367r0, “NDP feedback report”**
      1. Presented by Laurent cariou (Intel)
      2. Strawpoll 1:
         1. “Do you agree to update the 11ax specification D0.5 according to the instructions in slide 16 of document 16/1367r0.”
         2. Results: Y/N/A: 29/1/18. Strawpoll passed.
   10. **11-16/1368r1, “Follow-up on MU EDCA parameters”**
       1. Presented by Laurent cariou (Intel)
       2. Strawpoll 1:
          1. “Do you agree to update the 11ax specification D0.5 according to the instructions in document 16/1368r2.”
          2. Results: Strawpoll passed without objection.

**Tuesday, November 8th, 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 69 people are in the room.
2. **Announcement**
   1. Agenda Doc.11-16/1478 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. **11-16/1380r0, “Proposed text changes for TWT in congested environment”**
      1. Presented by Laurent cariou (Intel)
   2. **11-16/1381r0, “Proposed text changes for fragmentation operation”**
      1. Presented by Laurent cariou (Intel)
   3. **11-16/1404r1, “Early TWT SP Termination in TWT Operation”**
      1. Presented by Jayh hyunhee Park (LGE)
      2. Strawpoll 1:
         1. “Do you agree to update the 11ax specification D0.5 according to the instructions in slide 16 of document 16/1404r1”
         2. Results: Strawpoll passed without objection.
   4. **11-16/1413r5, “CID193 BSS Color Disabled Indication”**
      1. Presented by Abhishek Patil (Qualcomm)
   5. **11-16/1415r1, “CID72 BSS Color Change mechanism”**
      1. Presented by Abhishek Patil (Qualcomm)
      2. Strawpoll 1:
         1. “Do you agree to update the 11ax specification D0.5 according to the instructions in document 16/1415r2 for CID 72.”
         2. Results: Strawpoll passed without objection.
   6. **11-16/1409r2, “AMSDU Fragmentation”**
      1. Presented by Matt Fischer (Broadcom)
      2. Strawpoll 1:
         1. “Do you agree to update the 11ax specification D0.5 according to the instructions in document 16/1409r3.”
         2. Results: Strawpoll passed without objection.
   7. **11-16/1420r0, “TWT Information frames in 11ax”**
      1. Presented by Alfred Asterjadhi (Qualcomm)
      2. Strawpoll 1:
         1. “Do you agree to update the 11ax specification D0.5 according to the instructions in slides 8, 9 and 10 in document 16/1420r0”
         2. Results: Strawpoll passed without objection
   8. **11-16/1380r2, “Proposed text changes for TWT in congested environment”**
      1. Presented by Laurent cariou (Intel)
      2. Strawpoll 1:
         1. “Do you agree to update the 11ax specification D0.5 according to the instructions in document 16/1380r3”
         2. Results: Strawpoll passed without objection

**Wednesday, November 9th, 2016, PM1 TGax Session (1:30-3:30PM)**

1. **The meeting called to order at 1:30pm by Reza Hedayat (Newracom), the co-chair of the TGax MAC Ad hoc**
   1. About 75 people are in the room.
2. **Announcement**
   1. Agenda Doc.11-16/1478 on the server. Rev. 1 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. **11-16/1423r0, “NAV Update Rule Considering UL MU Operation”**
      1. Presented by Geonjung Ko (Wilus)
      2. Strawpoll 1:
         1. “Do you agree to make the change below and include it to the next revision of the TG draft?

(Clause 25.2.2 in page 118 of D0.5)

A STA shall update the intra-BSS NAV with the duration information indicated by the received frame in a PSDU if and only if all the following conditions are met:(#164)

—  The frame is identified as intra-BSS according to the rule described in 25.2.1 (Intra-BSS and inter-BSS frame detection)(#164)(#1466)

—  The indicated duration information is greater than the STA's current intra-BSS NAV value(#164)

—  Either Tthe STA is not solicited an immediate response by the PPDU carrying the frame.(#2905) or the STA is solicited an immediate response by the PPDU carrying the frame but the STA is not able to respond to the frame. ”

* + - 1. Results: Y/N/A: 7/10/19. Strawpoll failed.
  1. **11-16/1424r1, “Issue on the CWmax value in MU EDCA”**
     1. Presented by Woojin (Wilus)
  2. **11-16/1425r1, “Clarification on applying MU EDCA parameter set”**
     1. Presented by Woojin (Wilus)
     2. Strawpoll 1:
        1. “Do you agree to update the 11ax specification D0.5 according to the instructions in slide 6 of document 16/1425r2”
        2. Results: Strawpoll passed without objection
  3. **11-16/1454r0 and 11-16/1452r1, “Multiple BSSID and MU Discussion”**
     1. Presented by Liwen Chu (Marvel)
     2. Strawpoll 1:
        1. “Do you agree to update the 11ax specification D0.5 according to the instructions document 16/1452r2”
        2. Results: Strawpoll passed without objection
  4. **11-16/1456r0 and 11-16/1453r1, “A-MPDU content discussion”**
     1. Presented by Liwen Chu (Marvel)
     2. Strawpoll 1:
        1. “Do you agree to update the 11ax specification D0.5 according to the instructions document 16/1453r1”
        2. Results: Strawpoll passed without objection
  5. **11-16/1413r8, “CID193 BSS Color Disabled Indication”**
     1. Presented by Abhishek Patil (Qualcomm)
     2. Strawpoll 1:
        1. “Do you agree to update the 11ax specification D0.5 according to the instructions document 16/1413r8 for CID 193”
        2. Results: Y/N/A: 22/0/13

* 1. **11-16/1381r2, “Proposed text changes for fragmentation operation”**
     1. Presented by Laurent cariou (Intel)
     2. Strawpoll 1:
        1. “Do you agree to update the 11ax specification D0.5 according to the instructions document 16/1381r2”
        2. Results: Strawpoll passed without objection

**Wednesday, November 9th, 2016, PM2 TGax Session (4:00-6:00PM)**

1. **The meeting called to order at 4:00pm by Reza Hedayat (Newracom), the co-chair of the TGax MAC Ad hoc**
   1. About 80 people are in the room.
2. **Announcement**
   1. Agenda Doc.11-16/1478 on the server. Rev. 1 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**

**11-16/1458r0, “Comment Resolution for Sub-clause 25.13.2”**

* + 1. Presented by Chittabrata Ghosh (Intel)
    2. Strawpoll 1:
       1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1458r0 for CIDs: 195, 723, 779, 780, 1087, 1088, 2179, 2387, 2672, 2673, and 2674”
       2. Results: Strawpoll passed without objection

**Eric Wong (Apple) is the chair during the following two contributions.**

**11-16/1461r0, “MU BAR comment resolutions”**

* + 1. Presented by Reza Hedayat(Newracom)
    2. Strawpoll 1:
       1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1461r1 for CIDs: 6 and 7”
       2. Results: Strawpoll passed without objection

**11-16/1503r0, “CR for CID 991”**

* + 1. Presented by Kying(ZTE)

**Reza Hedayat (Newracom) is chair during the following contributions.**

**11-16/1357r0 and 16/1529r0, “CC0 Remaining CIDs on sounding”**

* + 1. Presented by Alfred(Qualcomm)
    2. Strawpoll 1:
       1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1357r0 for CIDs: 969, 1517, 1558, 1560, 1917, 2180”
       2. Results: Strawpoll passed without objection
    3. Strawpoll 2:
       1. “Do you support to instruct the TGax editor to remove the sentence below from IEEE802.11ax D0.5 in clause 9.3.1.23

The exact location of each 20 MHz for 80 MHz BW is TBD.”

* + - 1. Results: Strawpoll passed without objection
    1. Strawpoll 3:
       1. “Do you support to instruct the TGax Editor to make the following changes (related to HE Link adaptation A-Control format):
* Replace “TBD” with “16” in P17L21 of TGax D0.5
* Replace “TBD” with “Reserved” in P19L8 of TGax D0.5
* Replace “B6+X” with “B15” in P19L6 of TGax D0.5
* Replace “X” with “9” in P19L6 of TGax D0.5”
  + - 1. Results: Strawpoll passed without objection
    1. Strawpoll 4:
       1. “Do you support to instruct the TGax Editor to make the following changes as shown in 16/1529r0”
       2. Results: Strawpoll passed without objection

**11-16/1477r1, “CC23-PR-TWT”**

* + 1. Presented by Matt Fischer(Broadcom)
    2. Strawpoll 1:
       1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1477r2 for CID 682”
       2. Results: Strawpoll passed without objection
  1. **11-16/1424r2, “Issue on the CWmax value in MU EDCA”**
     1. Presented by Woojin (Wilus)
     2. Strawpoll 1: Do you support to instruct the TGax Editor to make the following changes as shown in slide 6 of document 16/1424r2
     3. Results: Strawpoll passed without objection
  2. **11-16/1503r0, “CR for CID 991”**
     1. Presented by Kying(ZTE)
     2. Strawpoll 1:
        1. “Do you agree to add to the 11ax specification D0.5 the comment resolutions in document 16/1503r2 for CID 991”
        2. Results: Strawpoll passed without objection