IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TGaz Meeting Minutes – May 13-16, 2019, Atlanta Georgia | | | | |
| Date: 2019-05-13 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | assafk@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

These are the meeting minutes for TGaz meeting in the May 2019 Atlanta Georgia

1. **TGaz – Monday, May 13th, 2019 – Slot #1 PM2**
   1. Called to order by TGaz chair, Jonathan Segev (Intel Corporation) at **13:30am ET**; Vice Chair Assaf Kasher (Qualcomm), Technical Co-Editor, Chao Chun (MediaTek); Technical Co-Editor, Roy Want (Google Inc.); Secretary, Assaf Kasher (Qualcomm).
   2. Agenda Doc. **IEEE 802.11-19/512r2 (in progress)**
   3. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, and, and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped up.
      3. Chair reviewed IEEE 802 WG participation as an individual professional, and anti-trust requirements – no clarification requested.
      4. Chair reminded all to record their attendance
      5. Recorded Participation requirement
         1. Headcount: ~30 present
   4. Review Agenda
      1. Agenda review and setting: reviewed submissions for the week.
      2. Chair called for any additional feedback and changes to agenda.
         1. None given. Agenda approved by unanimous consent.
   5. Motions to ratify the session and telecon minutes.  
      1. Motion 201905-01:  
         Move to approve document 11-19/458 r0 as TGaz meeting minutes for the January meeting.   
         1. Moved by: Roy Want
         2. Seconded by: Ganesh Venkatesan
         3. Results (Y/N/A): 26/0/1 Motion passes.
      2. Motion 201905-02:  
         Move to approve document 11-19/577r0 as TGaz meeting minutes for the March 27h Telecon.
         1. Moved by: Roy Want
         2. Seconded by: Jerome Henry
         3. Results (Y/N/A): 26/0/1 Motion passes.
      3. Motion 201905-03:  
         Move to approve document 11-19/606r0 as TGaz meeting minutes for the April 3rd Telecon.
         1. Moved by: Ganesh Venkatesan
         2. Seconded by: Roy Want
         3. Results (Y/N/A): 23/0/1 Motion passes.
      4. Motion 201905-04:  
         Move to approve document 11-19/634r0 as TGaz meeting minutes for the April 10th Telecon.
         1. Moved by: Assaf Kasher
         2. Seconded by: Jerome Henry
         3. Results (Y/N/A) 24/0/1 Motions passes
      5. Motion 201905-05:  
         Move to approve document 11-19/680r0 as TGaz meeting minutes for the April 24th Telecon.   
         1. Moved by: Assaf Kasher
         2. Seconded by: Roy Want
         3. Results (Y/N/A): 23/0/1, Motion passes.
   6. TGaz PAR extension
      1. Chair presented document 11-19-0732r1
   7. Comment Resolution motions form Ad Hoc and Telecon
      1. Motion 201905-06:  
         Move to adopt the resolutions depicted by document 11-19-558r1 for CID 1025, 1420, 1016, 2446, 2448, 1418, 1417, 1419, 1234, 1860, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Assaf Kasher
         2. Seconded by: Ganesh Venkatesan
         3. Results (Y/N/A): 20/0/1 Motion Passes
      2. Motion 201905-07:  
         Move to adopt the resolutions depicted by document 11-19-579r3 for CID 1025, 1420, 1016, 2446, 2448, 1418, 1417, 1419, 1234, 1860, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Assaf Kasher
         2. Seconded by: Ali Raissinia
         3. Results (Y/N/A): 23/0/2 Motion Passes
      3. Motion 201905-08:  
         Move to adopt the resolutions depicted by document 11-19-603r1 for CID 1580, 2283 and 1163 instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license
         1. Moved by: Yongho Seok
         2. Seconded by: Ganesh Venkatesan
         3. Results (Y/N/A): 24/0/2 Motion Passes
      4. Motion 201905-09:  
         Move to adopt the resolutions depicted by document 11-19-622r1 for CID 1009, 2020, 1486, 1487, 1758, 2391, 1488, 1913 1735, 1093, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Assaf Kasher
         2. Seconded by: Ganesh Venkatesan
         3. Results (Y/N/A): 24/0/2 Motion Passes
      5. Motion 201905-10:  
         Move to adopt the resolutions depicted by document 11-19-646r1 for CIDs 2053, 2055, 1449, 1451, 2091, 2093, 1684, 2251, 2336, 1214, 1215, 1223, 1070, 1071, 1075, 1400, 1401, 1402, 1493, 1403, 1404, 1405, 1406, 1407, 1408, 1385, 1226, 2440, 1662, 1685, 1686, 1074, 2252, 1428, 1094 and 1076, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Assaf Kasher
         2. Seconded by: Yongho Seok
         3. Results (Y/N/A): 19/0/2 Motion Passes
      6. Motion 201905-11:  
         Move to adopt the resolutions depicted by document 11-19-702r1 for CIDs 1472, 1890, 1893, 1984, 2158, 2159, 2160, 2161, 2162, 2163, 2165, 2166, 2167 and 2168, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Jerome Henry
         2. Seconded by: Ganesh Venkatesan
         3. Results (Y/N/A): 22/0/1 Motion Passes
      7. Motion 201905-12:  
         Move to adopt the resolutions depicted by document 11-19-702r2 for CIDs 2164, 2169, 2170, 2171, 2172, 2173 and 2174, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Assaf Kasher
         2. Seconded by: Ganesh Venkatesan
         3. Results (Y/N/A): 20/0/4 Motion Passes
      8. Motion 201905-13:  
         Move to adopt the resolutions depicted by document 11-19-701r1 for CIDs 1343, 1474, 2175, 2176, 2180, 2181, 2182, 2183, 2184 and 2185, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Jerome Henry
         2. Seconded by: Yongho Seok
         3. Results (Y/N/A): 21/0/2 Motion Passes
      9. Motion 201905-14:  
         Move to adopt the resolutions depicted by document 11-19-697r2 for CIDs 1336, 1977, 1170, 1567, and 1568, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license
         1. Moved by: Dibakar Das
         2. Seconded by: Chittabrata Ghosh
         3. Results (Y/N/A): 21/0/2 Motion Passes
      10. Motion 201905-15:  
          Move to adopt the resolution depicted by document 11-19-701r2 for CID 1343, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license
          1. Moved By: Ganesh Venkatesan
          2. Seconded By: Manish Kumar
          3. Results (Y/N/A): 20/0/4 Motion Passes
      11. Motion 201905-16:  
          Move to adopt the resolution depicted by document 11-19-702r3 for CID 1977, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license
          1. Moved By: Ganesh Venkatesan
          2. Seconded By: Manish Kumar
          3. Results (Y/N/A): 20/0/4 Motion Passes
      12. Motion 201905-17:  
          Move to adopt the resolution depicted by document 11-19-676r1 for CIDs 1707, 1116, 1583, 1395, 1397 and 1424, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
          1. Moved By: Assaf Kasher
          2. Seconded By: Dibakar Das
          3. Results (Y/N/A): 21/0/4 Motion Passes
      13. Motion 201905-18:  
          Move to adopt the resolution depicted by document 11-19-602r1 address CIDs 2026, 2203, 2027, 2415, 2206, 2210, 1260, 1828, 1831, 1830, 1832, 1833, 1582, 2208 and 2219, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license
          1. Moved By: Yongho Seok
          2. Seconded By: Ganesh Venkatesan
          3. Results (Y/N/A): 21/0/3 Motion Passes
   8. CR submission 11-19-331r3 Postponed motion from March Meeting
      1. The postpone motion reads (201905-19):
      2. Resolve CID 2295 as, “Revise”. Incorporate the changes depicted by document 11-19-331r3- in the 802.11azdaft amendment text and grant editorial rights to the technical editor
         1. Moved by: Chris Hartman
         2. Seconded by: Ganesh Venkatesan
         3. Results: (Y/N/A): 15/19/2 Motion fails.
   9. Comment Resolution: 11-19-704r1 Resolutions to a few LB240 comments – Ganesh Venkatesan
      1. Strawpoll:  
         We support moving the secure LTF parameters element from the Fine Timing Measurement Requested Fine Timing Measurement Frames to the Ranging Parameters element.
      2. Results: (Y/N/A): 14/0/3
      3. At recess at 15:32
2. **TGaz – May 14th, 2019 – Slot #2 AM2**
   1. Called to order by TGaz chair, Jonathan Segev (Intel Corporation) at **10.30 ET**; Vice Chair Assaf Kasher (Qualcomm); Technical Co-Editor, Chao Chun (MediaTek); Technical Co-Editor, Roy Want (Google Inc.); Secretary, Assaf Kasher (Qualcomm).
   2. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, and, and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped up.
      3. Chair reviewed IEEE 802 WG participation as an individual professional, and anti-trust requirements – no clarification requested.
      4. Chair reminded everyone to record their attendance
      5. Recorded Participation requirement
         1. Headcount: ~26 present

* 1. Agenda Doc. **IEEE 802.11-19/512r4 (in progress)** 
     1. Agenda Review- Agenda Approved
  2. Review of Comment Assignment
     1. Comment Document – 11-19-0431-06
     2. Motion 201905-20:  
        Move to adopt the editorial resolutions depicted by document 11-19-431-r6 for CIDs specified in the document as resolved, instruct the technical editor to incorporate them in the P802.11az draft and grant the editor editorial license
        1. Moved by: Roy Want
        2. Seconded by: Jerome Henry
        3. Results (Y/N/A): 16/0/0 Motion Passes
     3. Comment Reassignment
        1. Will continue later (technical issues in excel file)
  3. Document 11-19-704r2 Resolution to LB 240 CIDs (Ganesh Venkatesan)
     1. Document presented.
     2. Some discussion – a new version will be presented
  4. Document 11-19-707r1 CR for PHY related comments
     1. Discussion on 8-PSK
        1. Proposal to use QPSK
        2. Response – fully random QPSK will have high PAPR
     2. Motion 201905-21:  
        Move to adopt the resolution depicted by document 11-19-707r1 for CIDS 1342, 2368, instruct the technical editor to incorporate them in the P802.11az draft and grant the editor editorial license
     3. Moved by: Feng Jiang
     4. Seconded by: Qinghua Li
     5. Results (Y/N/A): 20/0/0

1. **TGaz – May 14th, 2019 – Slot #3 PM1**
   1. Called to order by TGaz chair, Jonathan Segev (Intel Corporation) at **13.30 ET**; Vice Chair Assaf Kasher (Qualcomm); Technical Co-Editor, Chao Chun (MediaTek); Technical Co-Editor, Roy Want (Google Inc.); Secretary, Assaf Kasher (Qualcomm).
   2. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, and, and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped up.
      3. Chair reviewed IEEE 802 WG participation as an individual professional, and anti-trust requirements – no clarification requested.
      4. Chair reminded everyone to record their attendance
      5. Recorded Participation requirement
         1. Headcount: ~15 present
   3. Agenda Doc. **IEEE 802.11-19/512r5 (in progress)** 
      1. Agenda Review- Agenda Approved
   4. Consideration of an ad-hoc meeting
      1. Option of week of June 24th – 7 votes
      2. Option of week July 8th – 2 votes
      3. Motion 201905-22:   
         Authorize TGaz to hold an ad-hoc meeting on week June 24th, 2019 in the bay area CA, for the purpose of comment resolution
         1. Moved by: Assaf Kasher
         2. Seconded by: Ganesh Venkatesan
         3. Results: (Y/N/A) 14/0/0
      4. Continuation of Document 11-19-707r1 CR for PHY related comments
      5. Motion 201905-23:
      6. Move to adopt the resolutions depicted by document 11-19-707r1 for CID 2370. Instruct the technical editor to incorporate it in the P802.11az and grant the editor editorial license.
         1. Moved by: Feng Jiang
         2. Seconded by: Qinghua Li,
         3. Results are 16/0/0
   5. Comment assignment – 11-19-431r6
   6. Document 11-19-704r4 continuation – Ganesh Venkatesan
      1. Motion 201905-24:
      2. Move to Adopt the resolution depicted by document 11-19-704r5, 1106, 1119, 1120, 1399 ,1626, 1589, 1639, 1667, 1668, 1674, 1759, 1670, 1760, 1901, and 2485. Instruct the technical editor to incorporate it in the P802.11az and grant the editor editorial license.
      3. Moved by: Ganesh Venkatesan
      4. Seconded by: Assaf Kasher
      5. Results (Y/N/A) 11/0/0
   7. Document 11-19-659 Proposed resolution to CIDs on NTB ranging timing control – follow up – Qi Wang
      1. More review of the resolutions (especially field sizes) is needed.
2. **TGaz – May 15th, 2019 – Slot #4 PM1**
   1. Called to order by TGaz chair, Jonathan Segev (Intel Corporation) at **13.30 ET**; Vice Chair Assaf Kasher (Qualcomm); Technical Co-Editor, Chao Chun (MediaTek); Technical Co-Editor, Roy Want (Google Inc.); Secretary, Assaf Kasher (Qualcomm). Joined by Jon Rosdahl 802.11WG vice chair.
   2. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, and, and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped up.
      3. Chair reviewed IEEE 802 WG participation as an individual professional, and anti-trust requirements – no clarification requested.
      4. Chair reminded everyone to record their attendance
      5. Recorded Participation requirement
         1. Headcount: ~42 present
   3. Agenda Doc. **IEEE 802.11-19/512r6 (in progress)** 
      1. Agenda Review
         1. Discussion on whether to allow 11-19-913 to be inserted in the agenda as part of presentation time allocated to 11-19-481
         2. Objection from members
         3. Strawpoll: allowing 11-19-913 to presented as part of the time allocated for 11-19-481
         4. Results (Y/N/A) 24/6/0
      2. Motion: Approve the agenda as shown in slide 65 of **IEEE 802.11-19/512r6**
      3. Approved by unanimous consent
   4. Document 11-19-481r4 – Ali Raissinia
      1. Presented also 11-19-913
      2. Discussion: “does not care” does not really describe the behaviour
      3. Response: this is not spec text, will be improved
      4. Question: the issue that is negotiated is the user privacy. What is presented does have enough description of what does ISTA do when there is a requirement from the RSTA.
      5. Response: you agree to having the option of the RSTA not allow ISTA to participate
      6. Discussion: some options are missing: Only option for RSTA does not care and/or require ISTA to share location, other options exists.
      7. Discussion: The proposed protocol separates policy and protocol. It’s a good idea.
      8. Strawpoll: We agree to the principle presented in submission 11-19-913 and to the proposed resolution in document 11-19-481r4
      9. Results 31/10
   5. Document 11-19-331r6 – Qi Wang
      1. Discussion: There is a contradiction in the text
      2. Response: I don’t see the contradiction, it was contributed by somebody
      3. Discussion: in sum of the fields there is a confusion between policy and capability.
      4. Strawpoll: Do you support the I2R LMR feedback negotiation procedure as described in 11-19-331r6
      5. Results (Y/N) 17/24
   6. Document 11-19-732r1 PAR extension – Chair: Jonathan Segev
      1. Motion 201905-25:   
         Believing that the PAR extension request contained in the document referenced below meets IEEEE-SA guidelines,  
         Request that the PAR contained in 11-19-732r1 be posted to the IEEE802 Executive Committee agenda for WG802 preview E approval to submit to NesCom
         1. Moved by: Assaf Kasher
         2. Seconded by: Jerome Henry
         3. Results (Y/N/A) 24/0/0 Motion passes
3. **TGaz – May 16th, 2019 – Slot #5 AM1**
   1. Called to order by TGaz chair, Jonathan Segev (Intel Corporation) at **13.30 ET**; Vice Chair Assaf Kasher (Qualcomm); Technical Co-Editor, Chao Chun (MediaTek); Technical Co-Editor, Roy Want (Google Inc.); Secretary, Assaf Kasher (Qualcomm). Joined by Jon Rosdahl 802.11WG vice chair.
   2. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, and, and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped up.
      3. Chair reviewed IEEE 802 WG participation as an individual professional, and anti-trust requirements – no clarification requested.
      4. Chair reminded everyone to record their attendance
      5. Recorded Participation requirement
         1. Headcount: ~18 present
   3. Agenda Doc. **IEEE 802.11-19/512r7 (in progress)** 
      1. Agenda Review
      2. Agenda Approved by unanimous consent
   4. Document 11-19-718r3 - Nehru Bhandaru
      1. Motion 201905-26:   
         Move to adopt the comment resolution depicted in document 11-19-718r3 for CIDs 1090, 2222, 2318, 2319, 1906, 1459, 1460, 1461, 1458, 2320, 1457, 1293, 1029, 2221, 1030, 1031, 2313, 2323, 2395, 2017, 1903, 1905, 2237, 2076, 1032, 1034, 2289 and 1751, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Ganesh Venkatesan
         2. Seconded by: Peter Yee
         3. Results (Y/N/A) 22/0/2
   5. Comment Reassignment – document 11-19-431r6
   6. Document 11-19-708 Niranjan Grandhe
      1. Motion 201905-27:   
         Move to adopt the resolution depicted by document 11-19-708r1 for CIDs 2186, 2188, 2189, 2190, 2193, 2196, 2201, 2202, 2514, 2515 and instruct the technical editor to incorporate it in the comment resolution database.
         1. Moved by Niranjan Grandhe
         2. Second by: Ganesh Venkatesan
         3. Results (Y/N/A) 19/0/1
   7. Assaf Kasher (Qualcomm) presented document **11-19/842r0**
      1. **Title**: LB240 Clause-11-PEDMG-CIDs
      2. **Summary**: This document presents resolutions to CIDS in clause 11 related to PEDMG/PDMG
      3. - Request for comments on CID 2318 resolution - None
      4. - C. Upload the document request to Mentor.
      5. - Chair: Rearranged presentation order so this can be completed, (Mentor is running slow).
   8. Assaf Kasher (Qualcomm) presented document **11-19/666r0**
      1. **Title**: D3.0 Bug Fixes
      2. **Summary**: This document proposes a fix to some bugs found in TGaz D3.0
      3. - Discussion request on Bug#1 - None.
      4. Motion 201905-28:
      5. Move to adopt the text changes for bug #1 as proposed by document **11-19-666r1** and instruct the technical editor to incorporate in the P802.11az draft and grant editorial license to the editor.
      6. **Mover**: Ganesh Venkatesan
      7. **Seconder**: Assaf Kasher
      8. **Results(Y/N/A):** 19/0/0; **motion passes**
   9. Assaf Kasher (Qualcomm) **continued** presentation of document **11-19/842r0**
      1. **Title**: LB240 Clause-11-PEDMG-CIDs
      2. **Summary**: This document presents resolutions to CIDS in clause 11 related to PEDMG/PDMG
      3. C. Clarification CID 2381: is this referring to an optional part?
      4. R. Referencing spec: It appears to be mandatory.
      5. - Chair: Almost out of time, so interrupting discussion until next session.
      6. - Agenda updated for the remaining session #6.
      7. - Reminder to do attendance
      8. - Recess at 10.02am
4. **TGaz – May 16th, 2019 – Slot #6 PM2**
   1. Called to order by TGaz chair, Jonathan Segev (Intel Corporation) at **16,00 ET**; Vice Chair Assaf Kasher (Qualcomm); Technical Co-Editor, Chao Chun (MediaTek); Technical Co-Editor, Roy Want (Google Inc.); Secretary, Assaf Kasher (Qualcomm). Joined by Jon Rosdahl 802.11WG vice chair.
   2. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, and, and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped up.
      3. Chair reviewed IEEE 802 WG participation as an individual professional, and anti-trust requirements – no clarification requested.
      4. Chair reminded everyone to record their attendance
      5. Recorded Participation requirement
         1. Headcount: ~40 present
   3. Agenda Doc. IEEE 802.11-19/512r8 (in progress)
      1. Agenda Review
      2. Agenda Approved by unanimous consent
   4. Document 11-19-842r1 Assaf Kasher
      1. Motion 201905-29:  
         Move to adopt the resolutions depicted by document 11-19-842r1 for CID 2350, 1278,1279, 1281 instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
      2. Moved by: Assaf Kasher
      3. Seconded by: Dibakar Das
      4. Results (Y/N/A): 18/0/7
   5. Document 11-19-481r5 Ali Raissinia
      1. Document presented
      2. Discussion: LMR feedback field needs to be changed in LMR
      3. Document updated to fix the issue
      4. Discussion: Issue with the behaviour in AOA requested case
         1. Discussion: Not fix this on the fly and not fix everything.
         2. Agreed
      5. Motion 201905-30:  
         Move to adopt the resolutions depicted by document 11-19-481r6 for CID 1624, 2295, 2296, 2297, 2298, 2299, 2300 instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Chris Hartman
         2. Seconded by: Dan Harkins
         3. Results (Y/N/A): 31/0/0 motion passes
   6. Document 11-19-676 Dibakar Das
      1. Recap of the document after members reviewed and provided minor comments.
      2. Motion 201905-31:  
          Move to adopt the resolutions depicted by document 11-19-676r2 for CID 1391, 2045, 2260, 2263, 1393, 1394, 2261, 2421, 2048 instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
         1. Moved by: Dibakar Das
         2. Seconded by: Tianyu Wu
         3. Results (Y/N/A): 15/0/3 motion passes
   7. Document 11-19-885r3 Niranjan Grandhe
      1. Motion 201905-32:   
         Move to adopt the resolutions depicted by document 11-19-885r3 for CID 1829, 1160, 2264 instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
      2. Moved by: Niranjan Grandhe
      3. Seconded by: Ganesh Venkatesan
      4. Results: (Y/N/A): 8/0/1 Motion Passes
   8. Document 11-19-886r0 Niranjan Grandhe
      1. Discussion: Is OK to have a request for global search and replace
         1. It is OK, it may be a problem with figures
      2. Proposal: let the group review the document and the search and replace
   9. Chair : July Meeting goals
      1. Review comment resolution
      2. Publish a new baseline draft
      3. Have a 3 day ad-hoc for the purpose of comment resolution.

**References:**