IEEE P802.11  
Wireless LANs

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| TGaz March-May 2021 Telecon Plenary Minutes | | | | |
| Date: 2021-03-15 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

This document contains telecon minutes for the TGaz telecons between the March Plenary 2021 (electronic) and May 2021 Interim.

1. **TGaz – March 17th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:32am PST,**
   2. Agenda Doc. **IEEE 802.11-21/0188r7 (in progress - slide 31)**
   3. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped forward.
      3. Chair reminded participants to register their attendance using imat.
      4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
      5. Chair reviewed IEEE copyright policy, – no clarification requested
      6. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
      7. Chair reviewed IEEE 802 ground rules
      8. Recorded Participation requirement  
         Headcount: ~17 present
   4. Agenda
      1. Submissions
         1. 11-21-478 CID resolutions for LB253 (Ali Raissinia) – as needed
      2. Review submission queue
      3. Review future telecons.
   5. Ali Raissinia presented 11-21-477
      1. Title: CID resolutions for lb253
      2. CID 5045: Accept
      3. CID 5046: Accept
      4. CID 5047: Revise
      5. CID 5049: accept
      6. CID 5050: Reject
      7. CID 5051: Revise
      8. CID 5052: Accept
      9. CID 5053: accept
      10. CID 5056: Revise
      11. CID 5057: Accept
      12. CID 5058: Revise
      13. CID 5059: Accept
      14. CID 5060: Accept
      15. CID 5061: needs more review
      16. CID 5062: Revises
      17. CID 5064: Accept
      18. CID 5067: Accept
      19. CID 5068 Accept
      20. CID 5069: Accept
      21. CID 5070: Accept
      22. CID 5071: Accept
      23. **Strawpoll:**We agree to the resolution depicted by document 11-21-0478r2 for CIDs 5045, 5046, 5047, 5049, 5050, 5051, 5052, 5053, 5056, 5057, 5058, 5059, 5060, 5062, 5063, 5064, 5067, 5068, 5069, 5070, and 5071 ( 21 CIDs total).   
          **Results**: (8/0/2)
   6. Submission pipeline: currently empty
   7. Scheduled telecons: slide 52
   8. AOB?
   9. Adjourned at 11:56 PDT
   10. Attendance:

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| --- | --- | --- | --- |
| TGaz | 3/17 | AbidRabbu, Shaima' | IMU, VESTEL |
| TGaz | 3/17 | Berger, Christian | NXP Semiconductors |
| TGaz | 3/17 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 3/17 | Grandhe, Niranjan | NXP Semiconductors |
| TGaz | 3/17 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 3/17 | Lindskog, Erik | SAMSUNG |
| TGaz | 3/17 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 3/17 | Roder, Patricia | IEEE Standards Association (IEEE-SA) |
| TGaz | 3/17 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 3/17 | Segev, Jonathan | Intel Corporation |
| TGaz | 3/17 | Ungan, Tolgay | endiio GmbH |
| TGaz | 3/17 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 3/17 | Wang, Qi | Apple, Inc. |
| TGaz | 3/17 | Wang, Yi-Hsiu | Zeku |
| TGaz | 3/17 | Want, Roy | Google |
| TGaz | 3/17 | Zeng, Ruochen | NXP Semiconductors |

1. **TGaz – March 25th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:32am PST,**
   2. Agenda Doc. **IEEE 802.11-21/0188r10 (in progress - slide 55)**
   3. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped forward.
      3. Chair reminded participants to register their attendance using imat.
      4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
      5. Chair reviewed IEEE copyright policy, – no clarification requested
      6. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
      7. Chair reviewed IEEE 802 ground rules
      8. Recorded Participation requirement  
         Headcount: ~9 present
   4. Agenda
      1. Submission:
         1. 11-21-0519-00-00az-comment-resolution-lb253-parameters - part 3 (Christian Berger) – 20 minutes
         2. 11-21-0505-00-00az six CID resolutions for lb253 (Ali Raissinia) – 30 minutes
      2. Review submission que
      3. Review future telecons
   5. Chrstian Berger presented 11-21-0519
      1. Title comment-resolution-lb253-parameters - part 3
   6. Ali Raissinia Presented 11-21-505
      1. Title: six CID resolutions for lb253
      2. CID 5061: Revise
      3. CID 5066: Revise
      4. CID 5198L Revise
      5. CID 5222: Reject
      6. CID 5224: Reject
      7. CID 5230: Reject:
      8. Strawpoll:  
         We agree to the resolution of CIDs 5061, 5066, 5192, 5222, 5224, ad 5230 as depicted in 11-21-0505r1
      9. Results (Y/N/A) 7/0/1
   7. Submission Pipline
      1. 11-21-0519
      2. 11-21-0532
      3. 11-21-0533
   8. Telecons 3/32, 4/7 4/14, 4/21, 4/29, 5/5
   9. Attendance:

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| --- | --- | --- | --- |
| TGaz | 3/25 | Berger, Christian | NXP Semiconductors |
| TGaz | 3/25 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 3/25 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 3/25 | Segev, Jonathan | Intel Corporation |
| TGaz | 3/25 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 3/25 | Wang, Qi | Apple |
| TGaz | 3/25 | Das, Dibakar | Intel Corporation |
| TGaz | 3/25 | Want, Roy | Google |

1. **TGaz – March 31st 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:32am PST,**
   2. Agenda Doc. **IEEE 802.11-21/0188r10 (in progress - slide 55)**
   3. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped forward.
      3. Chair reminded participants to register their attendance using imat.
      4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
      5. Chair reviewed IEEE copyright policy, – no clarification requested
      6. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
      7. Chair reviewed IEEE 802 ground rules
      8. Recorded Participation requirement  
         Headcount: ~17 present
   4. Agenda:
      1. Submissions:
         1. 11-21-0519-00-00az-comment-resolution-lb253-parameters - part 3 (Christian Berger) – 20min
         2. 11-21-0532 AID-RSID-clarification (Dibakar Das)
         3. 11-21-0533 TGaz LB253 CR (Jonathan Segev)
         4. 11-21-0546 LB253 Resolution to CID set 2
      2. Review Submission pipeline
      3. Review future telecons
   5. Christian Berger presented 11-21-0519
      1. Title Comment Resolution LB253 Parameters – Parameters Part 3
      2. Q: Is possible to add a length field for the availability
      3. R: The length is part of the subelement/field
      4. Q: to figure the length we need to parse the element
      5. R: it is not complex
      6. More work needed
   6. Dibakar Das presented 11-21-0532
      1. Starpoll:  
         We agree to the proposed draft text changes as depicted in document 11-21-532r0?  
         Results: 10/0/0
   7. Jonathan Segev Presented11-21-533
      1. CID 5000: Accept
      2. CID 5003: Accept
      3. CID 5004: Accept
      4. CID 5005: Revise
      5. CID 5006: Accept
      6. CID 5009: Revise
   8. Assaf Kasher Presented 11-21-0546 LB253 Resolution to CID set 2
      1. CID 5219 – needs more work on clause 11 text
      2. CID 5400 – revise
      3. CID 5139 – needs more work to define what R2I and I2R mean.
   9. Submission pipeline
      1. 11-21-519
      2. 11-21-533
      3. 11-21-546
   10. Next Telecons – see slide 64
   11. AOB?
   12. Attendance:

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| --- | --- | --- | --- |
| TGaz | 3/31 | Bahn, Christy | IEEE STAFF |
| TGaz | 3/31 | Berger, Christian | NXP Semiconductors |
| TGaz | 3/31 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 3/31 | Das, Dibakar | Intel Corporation |
| TGaz | 3/31 | Henry, Jerome | Cisco Systems, Inc. |
| TGaz | 3/31 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 3/31 | Lee, Richard | R Lee Associates |
| TGaz | 3/31 | NANDAGOPALAN, SAI SHANKAR | Infineon Technologies |
| TGaz | 3/31 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 3/31 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 3/31 | Segev, Jonathan | Intel Corporation |
| TGaz | 3/31 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 3/31 | Wang, Qi | Apple, Inc. |
| TGaz | 3/31 | Want, Roy | Google |
| TGaz | 3/31 | Wu, Tianyu | Apple, Inc. |
| TGaz | 3/31 | Zeng, Ruochen | NXP Semiconductors |

1. **TGaz – April 7th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:32am PST,**
   2. Agenda Doc. **IEEE 802.11-21/0188r12 (in progress - slide 67)**
   3. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped forward.
      3. Chair reminded participants to register their attendance using imat.
      4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
      5. Chair reviewed IEEE copyright policy, – no clarification requested
      6. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
      7. Chair reviewed IEEE 802 ground rules
      8. Recorded Participation requirement  
         Headcount: ~17 present
   4. Agenda:
      1. Submissions:
         1. 11-21-0519 comment-resolution-lb253-parameters - part 3 (Christian Berger)
         2. 11-21-0533 TGaz LB253 CR (Jonathan Segev)
         3. 11-21-0546 LB253 Resolution to CID set 2 (Assaf Kasher)
      2. Review Submission pipeline
      3. Review future telecons
   5. Christian Berger Presented 11-21-519r2
      1. Title comment resolution lb253 parameters - part3
      2. Needs more work for name change for a field
   6. Jonathan Segev 11-21-533r2
      1. Title LB253 CR for various comments
      2. Strawpoll:   
         We agree to the resolution depicted by document 11-21-0533r2 for CIDs 5000, 5003, 5004, 5005, 5006, 5009, 5237(7 CIDs total).  
         Results: 12/0/0
   7. Assaf Kasher Presented 11-21-564
      1. Strawpoll:  
         We agree to the resolution depicted by document 11-21-0564r2 for CIDs 5219, 5029, 5400, 5139, 5152, 5097, 5098, 5429, 5260 (9 CIDs total).  
         Results: 9/0/1
   8. Christian Berger presented again 11-21-519r3
      1. Strawpoll:   
         We agree to the resolution depicted by document 11-21-0519r3 for CID 5014 (1 CID total).  
         Results: 9/0/2
   9. Submission pipeline: empty
   10. Scheduled telecons: see slide 72
       1. April 14th telecon is cancelled
   11. AOB?
   12. Adjourned at 11:47 PDT  
       Attendance:

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| TGaz | 4/7 | Berger, Christian | NXP Semiconductors |
| TGaz | 4/7 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 4/7 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 4/7 | Lindskog, Erik | SAMSUNG |
| TGaz | 4/7 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| TGaz | 4/7 | Moran, Ashley | IEEE Standards Association (IEEE-SA) |
| TGaz | 4/7 | NANDAGOPALAN, SAI SHANKAR | Infineon Technologies |
| TGaz | 4/7 | Nayak, Peshal | Samsung Research America |
| TGaz | 4/7 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 4/7 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 4/7 | Segev, Jonathan | Intel Corporation |
| TGaz | 4/7 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 4/7 | Wang, Qi | Apple, Inc. |
| TGaz | 4/7 | Want, Roy | Google |
| TGaz | 4/7 | Yee, Peter | NSA-CSD |
| TGaz | 4/7 | Zeng, Ruochen | NXP Semiconductors |

1. **TGaz – April 29th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **7:03 PDT,**
   2. Agenda Doc. **IEEE 802.11-21/0188r14 (in progress - slide 75)**
   3. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped forward.
      3. Chair reminded participants to register their attendance using imat.
      4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
      5. Chair reviewed IEEE copyright policy, – no clarification requested
      6. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
      7. Chair reviewed IEEE 802 ground rules
      8. Recorded Participation requirement  
         Headcount: ~13 present
   4. Agenda:
      1. CR status (Editors) (7min)
      2. Consideration of motion for approval:
         1. 11-20-771 TGaz plenary meeting motion compendium (30min)
      3. Discussion topics (review submissions):
         1. 11-21-708 few lb 253 crs -b (Nehru Bhandaru) (as needed)
      4. Special order items:
         1. PAR extension (10 min)
      5. Review submission pipeline and call for submissions (2min)
      6. Review future telecons (3 min)
   5. Roy Want present 11-21-0749
      1. 53 comments unassigned, 96 not strawpolled – net to do 149
   6. Consideration of motion for approval
      1. Document 11-20-771r4 TGaz plenary meeting motion compendium
      2. **Motion** (202104-01):  
         Move to adopt the resolution depicted by document 11-21-0478r2 for CIDs 5045, 5046, 5047, 5049, 5050, 5051, 5052, 5053, 5056, 5057, 5058, 5059, 5060, 5062, 5063, 5064, 5067, 5068, 5069, 5070, and 5071 ( 21 CIDs total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.   
         Moved: Ali Raissinia  
         Second: Nehru Bhandaru  
         Results (Y/N/A): (10/0/0) Motion Passes
      3. **Motion** (202104-02):  
         Move to adopt the resolution depicted by document 11-21-0505r1 for CIDs 5061, 5066, 5198, 5222, 5224, 5230 (6 CIDs total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.   
         Moved: Ali Raissinia  
         Second: Roy Want  
         Results (Y/N/A): Approved by Unanimous Consent
      4. **Motion** (202104-03):  
         Move to adopt the text changes depicted by document 11-21-0532r0, instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.   
         Moved: Ali Raissinia  
         Second: Nehru Bhandaru  
         Results (Y/N/A): Approved by Unanimous Consent
      5. **Motion** (202104-04):  
         Move to adopt the resolution depicted by document 11-21-0533r2 for CIDs 5000, 5003, 5004, 5005, 5006, 5009, 5237(7 CIDs total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.   
         Moved: Ali Raissinia  
         Second: Christian Berger  
         Results (Y/N/A): Approved by Unanimous Consent
      6. **Motion** (202104-05):  
         Move to adopt the resolution depicted by document 11-21-0564r2 for CIDs 5219, 5029, 5400, 5139, 5152, 5097, 5098, 5429, 5260 (9 CIDs total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.   
         Moved: Assaf Kasher  
         Second: Ali Raissinia  
         Results (Y/N/A): Approved by Unanimous Consent
      7. **Motion** (202104-06):  
         Move to adopt the resolution depicted by document 11-21-0519r3 for CIDs 5014 (1 CIDs total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.  
         Moved: Christian Berger  
         Second: Nehru Bhandaru  
         Results (Y/N/A): Approved by Unanimous Consent
   7. Nehru Bhandaru presented 11-21-708
      1. Title: Few LB 253 crs-b
      2. CID 5260: revise
      3. CID 5351: revise
      4. CID 5364: accept
      5. CID 5385: accept
      6. Strawpoll:  
         Do you agree to resolution depicted by document 11-21-708r0 of CIDs 5260, 5351, 5364 and 5385   
         Results (Y/N/A) : (9/0/0)
   8. Jonathan Segev spoke for PAR extension
   9. Submission pipeline – empty
   10. Telecon: May 5, May 26 (not including 802.11 May Interim)
   11. Christian Berger Discussed issues to be fixed in the draft.
   12. AOB
   13. Attendance:

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| TGaz | 4/29 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 4/29 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 4/29 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 4/29 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 4/29 | Santulli, Jennifer | IEEE Standards Association (IEEE-SA) |
| TGaz | 4/29 | Segev, Jonathan | Intel Corporation |
| TGaz | 4/29 | Wang, Qi | Apple, Inc. |
| TGaz | 4/29 | Zeng, Ruochen | NXP Semiconductors |

1. **TGaz – May 4th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **7:03 PDT,**
   2. Agenda Doc. **IEEE 802.11-21/0188r16 (in progress - slide 75)**
   3. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, duty to inform, the guideline for IEEE WG meetings and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one stepped forward.
      3. Chair reminded participants to register their attendance using imat.
      4. Chair reviewed other guidelines for IEEE meetings, asked if any clarifications are requested, no one stepped forward.
      5. Chair reviewed IEEE copyright policy, – no clarification requested
      6. Chair reviewed IEEE code of ethics and WG participation as an individual professional. – no clarification requested
      7. Chair reviewed IEEE 802 ground rules
      8. Recorded Participation requirement  
         Headcount: ~14 present
   4. Agenda:
      1. Review of LB253
      2. Discussion topics (review submissions):
         1. 11-21-536 Comment Resolutions on Several PHY Topics (Steve Shellhammer) (30 mins)
         2. 11-21-761 comment resolution lb253 parameters part 4 (Christian Berger) (20 mins)
   5. Roy want presented 11-21-786
      1. 149 comments to go.
   6. Steve Shellhammer presented 11-21-536
      1. CID 5413 – revised
      2. CID 5414 – revised
      3. CID 5415 – revised
      4. CID 5416- revised
      5. CID 5417 – Accept
      6. Strawpoll:  
         We agree to the resolution depicted by document 11-21-05361r1 for CIDs 5413, 5414, 5415, 5416, and 5417   
         results
   7. Christian Berger 11-21-761
   8. Submission pipeline –
      1. 11-21-761 – will be ready next week
   9. Scheduled Telecons: May 26th (WG interim May 10-18)
   10. AOB
   11. Adjourned 11:11 PDT
   12. Attendance

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| TGaz | 5/5 | Bahn, Christy | IEEE STAFF |
| TGaz | 5/5 | Berger, Christian | NXP Semiconductors |
| TGaz | 5/5 | Bhandaru, Nehru | Broadcom Corporation |
| TGaz | 5/5 | Kasher, Assaf | Qualcomm Incorporated |
| TGaz | 5/5 | Lindskog, Erik | SAMSUNG |
| TGaz | 5/5 | Raissinia, Alireza | Qualcomm Incorporated |
| TGaz | 5/5 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| TGaz | 5/5 | Segev, Jonathan | Intel Corporation |
| TGaz | 5/5 | Shellhammer, Stephen | Qualcomm Incorporated |
| TGaz | 5/5 | Wang, Chao Chun | MediaTek Inc. |
| TGaz | 5/5 | Wang, Qi | Apple, Inc. |
| TGaz | 5/5 | Want, Roy | Google |
| TGaz | 5/5 | Wu, Tianyu | Apple, Inc. |
| TGaz | 5/5 | Yee, Peter | NSA-CSD |
| TGaz | 5/5 | Zeng, Ruochen | NXP Semiconductors |