IEEE P802.11  
Wireless LANs

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| TGaz-January-2020-interim-minute | | | | |
| Date: 2020-11-03 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |
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Abstract

This document contains telecon minutes for the TGaz telecons in the January 2021 plenary.

1. **TGaz – January 11th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:30 am PDT,**
   2. Agenda Doc. **IEEE 802.11-20/1919r3 (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 slides, 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: ~70 present

* 1. Agenda Setting:
     1. Agenda setting for the week (5 min).
     2. Agenda for week in slide 23 of 11-21-1919r2 approved
     3. Motions to approve minutes
     4. Submission for the week:
        1. 11-21-0039 Christian Berger - Analysis of Secure LTF frequency windows
        2. 11-21-0040 Qi Wang - Proposed resolution to 11az LB249 CIDs on secure LTF
        3. 11-20-1817 Qi Wang - Proposed resolution to CID 3900
        4. 11-21-0047 Das Dibakar -CR for misc remaining CIDs
        5. 11-21-0048 Das Dibakar -Misc text clarification
        6. 11-21-0071 Jianhan Liu – On Capability of Supporting Windowing for Secure LTF
        7. 11-21-0053 Christian Berger 00-00az-comment resolution LB249 CID3260
  2. Agenda for Jan 11th meeting
     1. Review LB 249 CR progress
     2. 11-21-0039 Christian Berger - Analysis of Secure LTF frequency windows
     3. 11-21-0040 Proposed resolution to 11az LB249 CIDs on secure LTF
     4. 11-20-1817 Proposed resolution to CID 3900
  3. Roy Want reviewed the LB249 CR status
     1. 11 comments still unresolved
  4. Motion to approve minutes:
     1. Motion:  
        Move to approve document 11-20-1774r0 as TGaz meeting minutes for TGaz meetings for the Nov. Plenary IEEE Electronic meeting weeks.   
        Moved by:  
        Seconded by:  
        Results (Y/N/A): to be motioned later this week
     2. **Motion**:  
        Move to approve document 11-20-1986r0 as TGaz meeting minutes for TGaz telecons running between the Nov. and Jan. IEEE Electronic meeting weeks. Moved by:  
        Seconded by:  
        Results (Y/N/A): to be motioned later this week
  5. Christian Berger presented 11-21-0039
     1. **Title** Analysis of Secure LTF frequency windows
     2. **Discussion**
        1. Q: In general, I prefer not to have multiple windows, it will add complexity if the window needs to be removed at the RX. Of the windows you proposed I think the flat top is the best compromise.
        2. R: it depends on the BW, in 80MHz a window is not really needed
        3. Q: On slide 6, you imply 9m is the break point for the attacker. I think the security needs to be more general. Why are these numbers of 9m important?
        4. R: It depends of the application , but you need to take some number.
        5. Q: I think these numbers are skewed to prove a point
        6. Q: I slide 8 why did you change from 30+45ns to 60ns
        7. Q: Can you go to slide no 4. This is a different type of attack
        8. R: this is a not what the presentation is about
        9. Q: In slide 5: you show the correlation
        10. R: this is an MMSE sample by sample attack
        11. Q: the attack happens before the correlation
        12. R: you can use a Wiener filter to estimate the next sample. The presentation is about how much is information is available to do that.
        13. Q: The windowing has complexity at the Rx chain- did you analyse the complexity and fixed-point implementation
        14. R: I have not tested that in this simulation
        15. Q: How much effort should we put into protecting 20MHz and 40MHz
        16. R: 80MHz is much better, but we need to allow other BW.
  6. Qi Wang Present 11-21-0040
     1. Proposal resolution to 11az LB249 CIDs on secure LTFs
     2. Document presented in full – no time for discussion
     3. Meeting ended at 12:30 PST.

1. **TGaz – January 12th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:30 am PDT,**
   2. Agenda Doc. **IEEE 802.11-20/1919r3 (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 slides, 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: ~70 present
   4. Agenda Setting:
      1. Submissions:
         1. 11-21-0040r1 Proposed resolution to 11az LB249 CIDs on secure LTF CR – for completion 40 minutes
         2. 11-20-1817 Proposed resolution to CID 3900 15 minutes
         3. 11-21-0047 CR for misc remaining CIDS 20 minutes
         4. 11-21-0071 On Capability of Supporting Windowing for secure LTF – as time permits
   5. Qi Wang presented 11-20-0040r1 – follow-up
      1. Q: Normally the TX/RX vector doesn’t have if statement like here
      2. R: I am OK with moving the text
      3. **Motion 202101-1**Move to adopt the resolution depicted by document 11-21-040r2 for CIDs 3215, 3354, 3911, 3920 and 4018 (5 CIDs total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.  
         Moved By: Qi Wang  
         Seconded By: Nehru Bhandaru  
         Results (Y/N/A): (35/0/4) motion passes
   6. Qi Wang presented 11-20-1817
      1. Title: Proposed resolution to 11az lb249 cid 3900
      2. Q: It’s a good solution, not sure it’s the best place for this text.
      3. R: I am OK with moving it if the group support that.
      4. Q: “trigger sounding” should be capitalized
      5. R: I’ll align that with the rest of the document
   7. Dibakar Das presented 11-21-0047
      1. CID 3611: Revised
      2. CID 3214: Rejected, withdrawn
      3. CID 3376: Rejected, withdrawn
      4. CID 3356: Rejected, withdrawn
      5. **Motion (202101-02:**  
         Move to adopt the resolution depicted by document 11-21-047r2 for CIDs 3611 3214, 3376, 3356 (4 CIDs total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.  
         Moved: Dibakar Das  
         Second: Christian Berger  
         Results: (Y/N/A): Approved by Unanimous Consent
   8. Christian Berger presented 11-21-0053
      1. Title Comment Resolution LB249 CID 3260
      2. **Motion 202101-03**  
         Move to adopt the resolution depicted by document 11-21-053r1 for CID 3260 (1 CID total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.
      3. Moved: Christian Berger
      4. Second: Edward Au
      5. Result: Approved by unanimous consent.
   9. Qi Wang presented a follow-up of 11-20-1817
      1. Move the changed text to the paragraph before “An ISTA shall transmit …”
      2. **Motion 202101-04**  
         Move to adopt the resolution depicted by document 11-20-1817r2 for CID 3900 (1 CID total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.  
         Moved by: Qi Wang  
         Seconded by: Christian Berger  
         Results: Approved by unanimous consent.
   10. For next meeting
       1. 11-20-1825
       2. 11-21-0048
   11. AOB
   12. At recess at 12:30 PST
2. **TGaz – January 13th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:30 am PDT,**
   2. Agenda Doc. **IEEE 802.11-20/1919r3 (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 slides, 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: ~65 present

* 1. Agenda Setting:
     1. Submissions:
        1. 11-21-1825r1 Additional CIDs Clause 11.21.6.4.3 part 2 - Christian Berger - 20 minuets
        2. Consider LB249 completion and recirc
        3. Submission 11-21-0071
        4. Submission 11-21-048 Misc Text Clarification.
        5. 11-20-1817 Proposed resolution to CID 3900 15
  2. Christian Berger Presented 11-21-1825r1
     1. CID 3118: Revise
     2. Note made that TF Ranging Sounding frame and Trigger Frame of the Sounding variant need to be aligned in the draft as they refer to the same thing.
     3. **Motion (202101-05)**Move to adopt the resolution depicted by document 11-20-1825r1 for CID 3118 (1 CID total), instruct the technical editor to incorporate it in the P802.11az draft and grant the editor editorial license.  
        Moved by: Christian Berger  
        Second by: Ali Raissinia  
        Results 22/0/2
  3. **Consider LB249 Comment Resolution and recirculation:**
     1. **Moved to Thursday for the comment data base to be updated.**
  4. Jianhan Liu presented 11-21-0071
     1. **Title:** On Capability of Supporting Windowing for secure LTF
     2. **Discussion:**
        1. Q: we have similar capability for TOA capabilities,
        2. Q: I support the idea of advertising the capability, but I also support adding negotiation, such if the other party does support the one of the sides can withdraw
        3. R: this is an additional level of complexity
        4. Q: so how does it work
        5. R: If the bit is set the transitter of NDP should not use the window.
        6. Q: it makes sense to add this capability and to add a TXVECTOR
     3. **Strawpoll**:  
        Do you agree to add the transmit and receive capability of supporting Flat Top window on Secure LTFResults: (37/3/3)
  5. Dibakar Das (Intel) presented document 11-21/0048r4
     1. Title: Misc Text Clarification
     2. Summary: This text proposes some minor bug fixes to draft 2.6.
     3. Discussion
        1. C. UMGP-RNM is not an acronym, but it looks like one. Perhaps it's a definition; but could be improved?
        2. R. Replaced with URNMP
        3. C. The new text modifying p123 line 29 is fine for the Unassociated case, but there are concerns about the Associated case.
        4. R. Considerable discussion on this. Some agreement was made that the text needs to say the ISTA should set-up a security context first.
     4. A revision will be presented, after further discussion on the reflector, that takes these comments into consideration.
  6. AOB
     1. Roy Want & ChaoChun (Tech Editors) will post a summary of the completed LB249 comment resolution summary later in the day, so members can review it before voting on Thursday 1/14

1. **TGaz – January 14th 2021** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair and secretary (active), Assaf Kasher (Qualcomm), at **10:30 am PDT,**
   2. Agenda Doc. **IEEE 802.11-20/1919r8 (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 slides, 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: ~65 present

* 1. Agenda Setting:
     1. Consider LB249 completion and recirc
     2. Review progress during this week and set targets
     3. Review program pipeline
     4. Review setup telecon
     5. Submission pipeline
     6. AOB
  2. Consider LB259 completion recirculation ballot
     1. Roy want review 11-20-0017r1:
     2. **Motion (202101-06**):  
        **•** Having approved comment resolutions for all of the comments received from LB249 on TGaz D2.0 as contained in document 11-20-017r11,   
        • Instruct the editor to prepare Draft D3.0 incorporating these resolutions and,  
        • Approve a 15 day Working Group Recirculation Ballot asking the question “Should TGaz D3.0 be forwarded to Sponsor Ballot?”  
        **Moved: Assaf Kasher  
        Second: Roy Want  
        Results: 20/0/0**
  3. Review TG progress during the interim
     1. Completed LB249 comment resolution and approved recirculation out of the Jan meeting
  4. Targets toward March Meeting
     1. Generate P802.11az D3.0
     2. Conduct a 15day recirc
     3. Review and assign comments
     4. Conduct CR coming from recirculation ballot
  5. Timeline update
     1. Slide 52 of 11-20-1919r8
     2. Motion: We commit to the updated timelines s depicted in submission 11-20-1919r8
     3. Moved: Roy Want
     4. Second: Robert Stacy
     5. Results 15/0/8
  6. Scheduled telecon:
     1. Feb 3rd, 18th , 24th , Mar 3rd
  7. AOB
  8. Adjourned at 11:24 PST