IEEE P802.11  
Wireless LANs

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| TGaz Teleconference Minutes  March 27th, 2019 | | | | |
| Date: 2019-03-27 | | | | |
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Abstract

Minutes for the TGaz Teleconference: March 27th, 2019.

**IEEE 802.11 Task Group AZ**

**March 27th, 2019**

1. **TGaz – 27th March, 2019** 
   1. Called to order by TGaz Chair, Jonathan Segev (Intel Corporation) and Vice Chair, Assaf Kasher (Qualcomm), Roy Want (Google) Secretary, at **10am PT,**
   2. Agenda Doc. **IEEE 802.11-19/216r0 (slide 14)**
   3. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patent Policy, additional guidelines about IEEE-SA meeting and logistics – no clarifications requested.
      2. Chair called for any potentially essential patents, no one spoke up.
      3. Chair reviewed IEEE 802 WG participation as an individual professional, and anti-trust requirements – no clarification requested.
      4. Chair reminded all participants that they could record their attendance by email to the secretary (optional)
      5. Recorded Participation requirement
         1. Any questions comments or feedback – none
         2. Headcount: ~23 participants on telecon.
   4. Review Agenda
      1. Reviewed the agenda
      2. Time setting: **11-19/470** (30mins), and **11-19/558** (35mins)
      3. Chair called for any additional feedback and changes to agenda. - none
   5. Liwen Chu (Marvell) presented document **11-19/470r0**
      1. **Title**: TB NDP Ranging Synchronization.
      2. **Summary:** [Resolution for CID: 1888] This submission proposes the text for TB NDP ranging synchronization.
      3. **Discussion of presentation**:
      4. C. If we want to keep 16 bits (vs. 32bits) for the TSF, we need to decide the resolution we need.
      5. R. This is the way it’s used in FTM with 1 microsecond resolution.
      6. C. We are specifying behavior for TB ranging here. I have put in a CID that this also applies to passive ranging. But shouldn’t put it everywhere (just once), probably we should state when it doesn’t apply, for example secure ranging, to minimize the text we put in the standard.
      7. R. Clean way to say this is in Section 9.
      8. C. The most significant octet represents 1 microsecond, seems too fine. Change to milliseconds?
      9. R. Management frame (more restrictive) for FTM, now with a control frame it’s harder.
      10. C. Doesn’t matter which one, the overhead is the same.
      11. C. Proposal is to have two TSF info fields.
      12. R. Proposal is to stick with 1 TSF, and change resolution to 64 microseconds.
      13. C. If the time resolution is too coarse in reporting the TSF, will the station clocks be able to be synchronized?
      14. C. Editorial: Its ‘TB Ranging’, not ‘TB NDP Ranging’.
      15. **Chair**: Moving to next agenda item due to time.
   6. Assaf Kasher (Qualcomm) presented **11-19/0558r0**
      1. **Title**: LB240 First Path BF CIDs
      2. **Summary**: This document proposes resolutions to comments related to First Path BF. (#1025, #1420, #1016, #2446, #2448, #1418, #1417, #1419, #1234, #1860)
      3. **Discussion**
      4. C. Minor editorial updates during presentation
      5. C. Note in 11az Draft D1.0, the 11ay draft is at D2.0, but is now at D3.0. All references in 11az, need to migrate to the new drafts for 11ay and 11ax (now at D4.0).
      6. **Discussion**: No further comments.
      7. **Strawpoll:**

**Agree to adopt the resolutions depicted by document 11-19-558r0 with changes made during the call for CID 1025, 1420, 1016, 2446, 2448, 1418, 1417, 1419, 1234, 1860.**

* + 1. **Results (Y/N/A): 9/0/0**
  1. Any other business (AOB)?
     1. **None**
  2. Telecon ended at ~11.20 am PT.

**References:**

* <https://mentor.ieee.org/802.11/dcn/19/11-19-0216-00-00az-tgaz-march-telecon-agenda.pptx>
* <https://mentor.ieee.org/802.11/dcn/19/11-19-0470-00-00az-tb-ndp-ranging-synchronization.docx>
* <https://mentor.ieee.org/802.11/dcn/19/11-19-0558-01-00az-lb240-first-path-bf-cids.docx>