IEE802.11az Meeting Minutes May 2016 SessionE P802.11  
Wireless LANs

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| TGaz meeting minutes – July meeting | | | | |
| Date: 2016-07-27 | | | | |
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Abstract

Minutes for the TGaz meeting in San Diego.

**IEEE 802.11 Task Group AZ**

**July 2016 San Diego Plenary**

**July 24-29, 2016**

1. TGaz – 26 July 2016 – PM1
   1. Called to order by TGaz chair, Jonathan Segev (Intel Corporation) at 13:30 local time.
   2. TGaz secretary (acting) Carlos Aldana (Qualcomm).
   3. Agenda Doc. IEEE 802.11-16/752
   4. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patency Policy, additional guidelines about IEEE-SA meeting and logistics
      2. Chair called for any potentially essential patent, no one stepped up.
      3. Chair reminded all to record their attendance.
   5. Review Agenda
      1. Called for any additional submissions for the week.
      2. Reviewed the agenda based on doc 11-16/752
      3. Chair called for any additional feedback and changes to agenda – none identified, agenda for the week approved.
   6. Previous meeting minutes approval:
      1. Document 11-16/778r0 posted to Mentor June 13th
      2. **Motion (#1):**

**To approve document 11-16/778r0 as TG meeting minutes for the Waikoloa meeting.**

* + 1. **Moved by: Chao Chun Wang, 2nd by: Qi Wang**
    2. **Results (Y/N/A): 7/0/3**

Motion passes

* 1. Allan Zhu presented submission 11-16-424r3 FR working draft
     1. **Motion (#2):**

**We adopt document 11-16-0424r3 as Functional Requirement working draft for TGaz specification development.**

* + 1. **Moved: Allan Zhu, 2nd: Christian Berger**
    2. **Results (Y/N/A): 15/0/3**

Motion passes

* 1. 37 attendees in the room.
  2. Rahul Malik presented submission 11-16-1013.
  3. Chittabrata Ghosh presented submission 11-16-1015.
     1. C: In Slide 10, you show the NDPs stacked on top of each other. What is that dimension?
     2. R: This is spatial sounding. It is TBD as to how that is going to be done.

1. TGaz – 27 July 2016 – PM1
   1. Review Patent Policy and logistics
      1. Chair reviewed the IEEE-SA Patency Policy, additional guidelines about IEEE-SA meeting and logistics
      2. Chair called for any potentially essential patent, no one stepped up.
      3. Chair reminded all to record their attendance.
   2. Fulei Liu presented submission 11-16-1010.
      1. C: What parameters are you suggesting to tweak?
      2. R: This would need further study.
      3. C: Regarding associated and unassociated requirements, what did you have in mind?
      4. R: Different parameters that are not related to the frame.
      5. **Strawpoll: The scalable mode of the 802.11az positioning measurement protocol should minimize the associated STA‘s and unassociated STA’s power consumption.**
      6. Result : 11/0/11.
   3. Qi Wang presented submission 11-16-1020.
      1. C: How about collisions?
      2. R: They will happen. One of the concerns is that the attacker ramps up the power of the Ack frame.
      3. C: Are you trying to address the case where the valid initiator is not present?
      4. R: We are trying to address the fake Ack in which the initiator is present.
      5. C: I would be interested in seeing the RSSI power analysis that shows this is a problem.
      6. R: Yes, we can provide it.
      7. C: I don’t believe this fake Ack scenario is a serious threat. When a transmission is made, the medium has been reserved. The problem that is being discussed will likely lead to collisions.
      8. R: I disagree.
      9. C: We can probably detect an attack by evaluating the timestamps.
      10. R: If so, please make a proposal as to how this can be done.
      11. C: We should try to plug as many holes as we can if we want to make FTM a successful technology.
      12. C: If the response is within SIFS, Ack duration is much larger than SIFS. A collision is likely to occur.
      13. R: SIFS is implemented as an upper bound.
   4. Chair reviewed the timelines and made the group aware that we’re slipping by 3-4 months.
   5. Teleconference schedule for September 7th at 10 AM ET for 1 hour.
   6. Chair called for any other business – none identified.
   7. Task Group meeting adjourned.