IEEE P802.11  
Wireless LANs

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| TGaz meeting minutes – January meeting | | | | |
| Date: 2016-01-19 | | | | |
| Author(s): | | | | |
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Abstract

Minutes for the TGaz meeting in Atlanta.

**IEEE 802.11 Task Group AZ**

**January 2016 Atlanta Interim**

**January 17-22, 2016**

1. TGaz – 19 Jan 2016 – PM2
   1. Called to order by TGaz chair, Jonathan Segev (Intel Corporation) at 16:00 local time.
   2. TGaz secretary (acting) Carlos Aldana (Qualcomm).
   3. Agenda Doc. IEEE 802.11-15/1466r1
   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 and modified the agenda based on doc 11-15/1466r1 to create 11-15/1466r2.
      3. Chair called for any additional feedback and changes to agenda – non identified, agenda for the week approved.
   6. Previous meeting minutes approval:
      1. Document 11-15/1470r1 posted to Mentor Nov. 13th.
      2. **Motion (#1):**

**To approve document 11-15/1470r1 as TG meeting minutes for the Dallas meeting.**

* + 1. **Moved by: Ganesh, 2nd by: Chao Chun**
    2. **Results (Y/N/A): Unanimous consent**

Motion passes

* 1. Task Group Leadership elections
     1. SFD and Technical editor
        1. Chair called for additional nominations and closed the nominations after hearing no further nominees from the group.
        2. **Motion (#2)**

**To approve Chao Chun Wang (MTK) as TGaz technical and SFD editor.**

* + - 1. **Moved: Ganesh, 2nd: Liwen Chu**
      2. **Results (Y/N/A): 16 /0/1**

Motion passes

* + 1. FRD editor
       1. Chair called for additional nominations and closed the nominations after hearing no further nominees from the group.
       2. **Motion (#3)**

**To approve Allan Zhou (Huawei) as TGaz FRD editor.**

* + - 1. **Moved: Chao Chun, 2nd: Ganesh Venkatesan**
      2. **Results (Y/N/A): 14/0/0**

Motion passes

* 1. Chair indicated TGaz secretary Zhu Lan indicated he would not be able to continue his role and that the TGaz secretary position is available.
  2. Assaf Kasher (Intel Corporation) presented submission 11-16-019
     1. Questions on slide 3
        1. Where is the location done: device or AP?
           1. Answer : location can be done by AP or device
        2. Is it necessary for the station to know its location?
           1. Not really
        3. How big an area do you need this accuracy?
           1. 2 meter wide aisles
           2. APs deployed once in 10 meters.
     2. Questions on slide 6
        1. What is driving 5cm ranging accuracy?
           1. The shorter ranges are driving it. For example, phone and laptop.
     3. Strawpoll:

Do you agree to add the use cases listed in this document as NGP Use-Case for High Resolution to 802.11az use cases working draft?

* + 1. Results (Y/N/A): 10/0/0
    2. **Motion (#4):**

**To instruct the use case document editor to add use cases depicted by slides 3-9 of submission 11-16-0019-00-00az-NGP-High-Resolution-Use-Cases to the use case working draft document.**

* + 1. **Moved: Alecsander Eitan, 2nd: Ganesh Venkatesan**
    2. **Results (Y/N/A): 11/0/7**

Motion passes

* 1. Ganesh Venkatesan (Intel Corporation) presented submission 11-16-0134-01:
     1. Will bring back. There is TBD that needs further discussion.
     2. Discussion:
        1. Q: Is there room to add more use cases?
        2. R: We should have been done with use cases at this point.
  2. Alecsander Eitan (Qualcomm) presented submission 11-16-0148-01:
     1. Discussion:
        1. Q: How long do you think beamforming will be stable?
        2. R: This is work that needs to be done.
     2. Strawpoll:

Do you agree to adopt the following functional requirements?

1. Decrease units of Min Delta FTM for 60 GHz while maintaining backwards compatibility
2. Allow for smaller Burst Duration for 60 GHz while maintaining backwards compatibility
3. Add additional rotational angle (ROLL) to measurement reports
4. Define TOD for T1 & T3 and TOA for T2 & T4 to reduce effect of drift on ranging computation
   * 1. Results (Y/N/A): 19-0-5
     2. **Motion(#5):**

**To instruct the FRD editor to add functional requirements depicted by slide 5 of submission 11-16-0148r1 to the functional requirement working draft document.**

* + 1. **Moved: Alecs Eitan 2nd: Ganesh Venkatesan**
    2. **Results (Y/N/A): 10-0-6**

Motion passes

* + 1. Meeting recessed at 18:00 Atlanta local time and will be resumed on Wednesday PM1.

1. TGaz – 20 Jan 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 802.11-15/1466r2.
   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 feedback and changes to the submissions order.
      2. Reviewed and modified the agenda based on doc 11-15/1466r2 to create 11-15/1466r3.
      3. Chair called for any additional feedback and changes to agenda – none identified.
   6. Santosh Pandey (Cisco) presented submission 11-16-0137r0 (NGP Use case document):
      1. **Motion (#6):**

**We adopt document 11-16-0137r0 as use case document for TGaz specification development.**

* + 1. **Moved: Santosh Pandey, 2nd: Yaron Alpert**
    2. **Results (Y/N/A): 12/0/3**

Motion passes

* 1. Ganesh Venkatesan (Intel Corporation) presented submission 1-16-0134r2:
     1. Discussion:
        1. C: Concern about using 802.11n channel model for performance evaluation. Why not 802.11ac?

R: 802.11ac is based on 802.11n channel model, the main additions were related to new bandwidths (80, 160, 80+80 etc.) and the additions to MU-DL-MIMO.

* + - 1. Document changes to 802.11n/802.11ac
    1. Motion :

Move to adopt the set of functional requirements listed in slide #5 and include them in the TGaz Functional Requirements Document under the sub-section focused on Accuracy and Coverage for the .11az protocol while operating in 2.4 GHz and 5GHz bands.

* + 1. Moved: Chao Chun Wang, 2nd: Ganesh Venkatesan
    2. Results (Y/N/A): 14/0/3

Motion passes

* 1. Chair reviewed the project timelines and deliverables and the progress made.
  2. Teleconference schedule for February 3 at 10 AM EST for 1 hour.
  3. Chair called for any other business – none identified.
  4. Task Group Atlanta meeting adjourned.

**References:**

Tuesday PM2:

<https://mentor.ieee.org/802.11/dcn/16/11-16-0148-01-00az-60-ghz-focus-area.pptx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1466-01-00az-tgaz-jan-2016-meeting-agenda.pptx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-0019-00-00az-ngp-high-resolution-use-cases.pptx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-0134-01-00az-accuracy-and-coverage-functional-requirements.pptx>

Wednesday PM1:

<https://mentor.ieee.org/802.11/dcn/16/11-16-0137-00-00az-ngp-use-case-document.pptx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-0134-02-00az-accuracy-and-coverage-functional-requirements.pptx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1466-02-00az-tgaz-jan-2016-meeting-agenda.pptx>