Minutes of 802.18 (RR-TAG) Meeting

(Big Island, HI, USA, in September, 2017)

IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: | | | | |
| Name | Affiliation | Address | Phone | email |
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| Officer presiding: | | | | |
| Rich Kennedy,  Chair, RR-TAG | HP Enterprise | Austin, TX | (737) 202-7014 | [rich.kennedy@hpe.com](mailto:rich.kennedy@hpe.com) |

Abstract

Minutes of IEEE 802 RR-TAG Interim meeting in Big Island, Hawai’i, in Sep, 2017

**Tuesday, Sep 12th, 2017, AM2**

1. The Chair, Rich Kennedy, called the meeting to order at 10:33 local.
   1. About 15 people in the room
2. The Chair used the agenda meeting plan document 18-17/0116r02.
   1. Chair reviews slide #2, proposed agenda.
      * Approve Berlin minutes
      * Discussion items
        + Regulatory work in progress
        + Status of completed work
      * Actions required
        + Draft the IEEE 802 response to the FCC Mid-band NOI
      * AOB and Adjourn
   2. Chair asked if any modification and additions for the agenda.
   3. Agenda approved by unanimous consent.
3. Chair reviewed Slide #3, Administrative Items
4. Chair reviewed slide #4, #5, meeting guidelines.
5. July 2017 meeting minute was approved by unanimous consent on slide #6.
   1. Document #: 18-17/0095r0
6. Chair went through slide #7 on discussion items.
   1. Americas updates
      1. FCC 17-104 Mid-band Notice of Inquiry
      2. More legislation to limit Wi-Fi in schools
      3. FCC Technical Advisory Council inquiry into the removal of regulations
   2. EMEA updates
      1. 6 GHz Band opening study in “process”
      2. 60 GHz proceeding(s)
   3. APAC updates
      1. ACMA
7. Chair went through slide 8, on Americas update
   1. FCC Mid-band Notice of Inquiry
      1. See Action Items
      2. Coexistence with UWB
         * <https://mentor.ieee.org/802.18/dcn/17/18-17-0115-00-0000-uwb-in-ieee-802-and-fcc-mid-band-spectrum-noi.pptx>
   2. FCC Technical Advisory Council inquiry into the removal of regulations
      1. <https://mentor.ieee.org/802.18/dcn/17/18-17-0117-00-0000-fcc-tac-removing-rules-technical-inquiry.docx>
8. Billy Verso (Decawave) presented document 18-17/115r1, “UWB in IEEE 802 and   
   FCC Mid-band Spectrum NOI”
   1. The purpose of this presentation is to make 802.18 more aware of UWB, particularly in the context of the FCC NOI “Expanding Flexible Use in Mid-Band Spectrum between 3.7 and 24 GHz”, and request that the response from 802.18 takes 802 UWB use into account.
   2. C: If 802.18 adopts UWB, it will interference with 802.11.
   3. C: Exact discussion is happening in EU. Coexistence with existing users and higher power transmission are the topics under discussion;
   4. C: The whole concept of UWB is undelaying – it was designed to coexist with all other techniques, with low power transmission. 802.19 could work out the coexistence issues.
   5. C: currently we are looking at using this band for 802.11ax. We will need to rework the coexistence assurance document of 11ax. But we are not preventing other techniques to use this band.
   6. C: for 802.18, we need to consider requests from all relevant groups, 802.11, 802.15, 802.16 and etc.
   7. C: Rumour says 3GPP driven ITS group intends to use 80MHz of the band.
   8. C: This is only the NOI phase, we will get more serious when it gets to the next phase.
   9. Chair: we will review the NOI response on Thursday, before sending it to EC. Everyone is welcomed to participate in the discussion
9. Chair quickly reviewed the document 18-17/117, it will be reviewed again on Thu.
10. Chair reviewed a message from David Case (Cisco) on possible harmful effect on human beings in schools.
    1. Legislation has been considered to limit Wi-Fi deployment in schools.
    2. WFA has responded to the accusation.
    3. Discussion on the topic for a few minutes.
11. Chair discusses slide #9-#10, EMEA Updates;
    * Radio Equipment Directive issues resolved
      1. EC asking for Receiver Sensitivity requirement to:
      2. EN 300 328 (2.4 GHz)
      3. EN 301 893 (5 GHz)
      4. EN 302 567 (60 GHz)
    * ETSI TC BRAN #95 results
      1. TR 103 524 SRdoc for 6 GHz band studies nearly complete; needs interference mitigation information
      2. Work started on next revision of EN 301 893; discussion of 60 GHz Receiver Sensitivity requirement
    * 6 GHz project “started”
      1. WGSE (Spectrum Engineering) PT24 was to begin work on 6 GHz SRdoc, but Chair decided he must wait for LS responses from SE19 and SE40 (representing spectrum incumbents)
    * 60 GHz proceeding(s)
      1. Current ITC allocation overlaps two 802.11ad channels
      2. New study asked for to looking into making channelization adjustments to reduce this to a single channel
      3. New SRdoc proponenets asked to wait until TC ITC is done
12. Chair discusses slide #11; on APAC update
    1. Australia Communications and Media Authority (ACMA) new consultation
       1. Review of Interference Management Principles
       2. The ACMA investigates complaints of interference to radiocommunications services in accordance with a set of Interference Management Principles developed in 2004 by the Australian Communications Authority (a predecessor to the ACMA) in consultation with industry representatives. However, technology and regulatory practice has changed significantly since 2004. To ensure that compliance resources are used effectively and efficiently in response to complaints of interference, the ACMA proposes to adopt new Interference Management Principles. Once finalised, these principles will support the development of policies and processes about the management and effective resolution of interference issues, including the role and responsibilities of the ACMA.
13. Chair discusses slide #12; Actions Required
    1. FCC Mid-band Spectrum NOI response
    2. “Exploring Flexible Use in Mid-Band Spectrum Between 3.7 GHz and 24 GHz”
       1. Due October 2nd, so must be completed this week
       2. Will review Tuesday AM2
       3. Ad hoc drafting Tuesday/Wednesday
       4. Vote to approve Thursday AM1/AM2
14. Chair discusses slide #13, on NOI Information
    1. 3700 MHz to 4200 MHz
       1. CBRS extension band?
       2. T-Mobile petition to extend PALs, etc.
    2. 5925 MHz to 6425 MHz
       1. For unlicensed sharing with:
       2. C-band uplinks
       3. Fixed microwave links
    3. 6425 MHz to 7125 MHz
       1. Opportunity for additional unlicensed sharing
       2. Some have asked for additional licensed space
    4. DFS channel usage
    5. Other bands between 3.7 GHz and 24 GHz
    6. Comment period ends October 2, 2017
    7. Reply Comment period ends November 1, 2017
15. Chair reviewed the IEEE 802 response document to NOI, Doc 18-17/114r1
16. Completed agenda content for today. For Thursday, we will
    1. Look at the FCC Technical Advisory Council inquiry into the removal of regulations;
    2. Complete the IEEE response on FCC 6GHz NOI.
17. Chair recessed the meeting at 12:06PM. We are recessed till Thursday AM1.

**Thursday, Sep 14th, 2017, AM1**

1. The Chair, Rich Kennedy, called the meeting to order at 8:03 local.
   1. About 18 people in the room
2. The Chair used the current agenda meeting plan document 18-17/0116r03.
   1. Chair reviews slide #14, Thursday Agenda.
      1. AM1
         1. Final review of the FCC NOI response
         2. FCC TAC inquiry into the removal of regulations
      2. AM2
         1. Vote to approve the FCC NOI response
         2. Any Other Business
         3. Adjourn
   2. The group approved the agenda with unanimous consent;
3. The Chair reviewed administrative items, Slide #3-5
4. The Chair reviewed what have been discussed on Tuesday;
5. The Chair reviewed document 18-17/114r3, the IEEE comments on FCC NOI on 6GHz band.
   1. The group will vote on it at the beginning of AM2.
6. The Chair reviewed document 18-17/117, FCC TAC inquiry into the removal of regulation.
7. Meeting recessed at 8:57 until 10:30AM.

**Thursday, Sep 14th, 2017, AM2**

1. The Chair, Rich Kennedy, called the meeting to order at 10:33 local.
   1. About 18 people in the room
2. The Chair discussed NOI response in 18-17/114r5
   1. Some modifications have been done during the discussion;
3. The Chair entertained a motion on Slide 16,
   1. Motion #1: “To approve document 18-17/114r6 with Chair having editorial privileges and send to the EC for a 10-day e-vote for submittal to the FCC on or before October 2, 2017.”
   2. Moved by: Jim P.
   3. Seconded by: Stephen
   4. Result: 15/0/0
4. The Chair discussed Slide #17, on Any Other business
   1. ACMA Spectrum for 5G consultation
   2. Next teleconference: Sep 28th at 2:30pm EDT
5. Meeting adjourned at 10:49AM.