Minutes of 802.18 (RR-TAG) Meeting

(Daejeon, Korea, in May, 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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| Author(s): | | | | |
| Allan Zhu | Huawei Technologies | San Jose, CA | (718)877-9645 | [chunhui.zhu@huawei.com](mailto:chunhui.zhu@huawei.com) |
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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 Daejeon, Korea, in May, 2017

**Tuesday, May 9th, 2017, AM2**

1. The Chair, Rich Kennedy, called the meeting to order at 10:33 local.
   1. About 12 people in the room
2. The Chair used the current agenda meeting plan document 18-17/0071r01.
   1. Chair reviews slide 2, proposed agenda.
      * Meeting Tuesday AM2 and Thursday AM1 [+AM2] in Room 104
      * Approve Vancouver minutes
      * Discussion items
        + Regulatory work in progress
        + Status of completed work
      * Actions required
        + LS from IEEE 802 to the ITU-R on light communications
        + Advancing the 6 GHz effort in the US and EU
      * AOB and Adjourn
   2. Chair asked if any 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. March 2017 meeting minute was approved by unanimous consent on slide #6.
   1. Document #: 18-17/0051r0
6. Chair went through slide #7 for discussion items.
   1. FCC
   2. EU
   3. Other Regulatory
7. Chair went through slide 8, on FCC update
   1. Notice of Inquiry prepared for “Below 24 GHz”
      1. Includes 3700-4200 MHz and 5925-7125 MHz
      2. Also includes DoD bands; release held up as a result
      3. Ask for FCC to separate out the non-DoD bands and issue NOI
      4. Failing this, generate a Petition for Rulemaking
   2. Still testing DSRC band coexistence
   3. NTIA wants to enable additional radars in U-NII-2a and U-NII-3
      1. Bistatic: receiver is undetectable
      2. Fast FH: some hops can have one pulse; also undetectable
      3. Could make bands unusable by 802.11
8. Chair discusses slide #9, EU Updates;
   * 1. Ofcom 5725-5850 MHz band proposal
        1. Still waiting for Ofcom resolution
     2. EU Radio Equipment Directive & standards updates
        1. See RED slide
     3. 6 GHz band sharing
        1. 5925-7125MHz
        2. NWI adopted by ETSI TC ERM
        3. WGFM WI FM52 assigned
        4. SRdoc TR 103 524 development started in ETSI TC BRAN
9. Chair discusses slide #10; on EU Radio Equipment Directive (RED)
   1. The transition has already started
      1. RED in THE LAW as of June 13, 2016
      2. R&TTE expires June 12, 2017
      3. After June 2017, all devices must meet the RED requirements, i.e. R&TTE certifications during the transition must be re-certified
   2. Following the deadline, ALL equipment to be placed on the EU market must meet the RED provisions
   3. EN 300 328 published in the OJEU!
   4. It appears that EN 301 893 will not be published in time
      1. EC has *NOT* approved use of v1.8.1 with note that v2.0.7 Receiver Requirements must also be met
      2. Passed ENAP; official publication date in August 19th, but could happen sooner
10. Chair discusses slide #11&#12; on EN 301 893 Quandry
    1. EN 301 893 v1.8.1 poised to be withdrawn 6/12/17
    2. V2.1.1 could be published in time
    3. Many Wi-Fi devices cannot meet the Adaptivity requirements in v2.1.1
       1. Max TXON can exceed the 10 mSec limit with some silicon
       2. Fix is currently unknown
    4. Best option is v1.8.1 Adaptivity with v2.1.1 Receiver Requirements
       1. No document exists with this pairing
       2. V1.9.1 created at BRAN #93 to create this
       3. EC says ETSI should approve without ENAP
       4. ETSI says to do so would violate ETSI rules
       5. Regulators that have to approve v1.9.1 rejecting based on the existence of v2.1.1
11. Chair discusses slide #13; on Other Regulatory
    1. Nothing from the Chair and members;
12. Chair discusses slide #14; Actions Required
    1. LS to the ITU-R on light communications
    2. Support for unlicensed sharing in 6GHz;
    3. IEEE 802 positions for WRC-19
13. Nikola discussed the LS from the IEEE 802 to the ITU-R SG1 WP1A
    1. 11-17/0790r0;
    2. Chair asked the group to go through the wording and provide comments.
    3. The document will then be taken to both .11 and .15 mid-week plenary to get approval.
    4. The group added wording on license-exempt nature of the band to the document (Para #3).
14. Chair discusses slide #15-16; Unlicensed Sharing of the 6 GHz Band
    1. Wi-Fi volume growth and technology advancement are hampered by lack of significant 80 and 160 MHz channels
    2. The (near) future demands gigabit speeds to avoid becoming the bottleneck
    3. Sharing with FSS and fixed microwave links
    4. Industry coalition to drive needed regulatory changes
       1. Joint exploration of the 5925-7125 MHz with the intent of obtaining an unlicensed designation
       2. Joint funding of third parties and engineering support to conduct interference analyses (incl. spectrum measurements, sharing studies, and potential mitigations) in support of unlicensed designation
       3. Joint exploration of mitigation techniques and proposals, which may require standards contributions
       4. Drive regulatory changes in the US, EU and globally
15. Completed agenda content for today.
16. Chair reviewed agenda for Thursday on Slide 17
17. Chair recessed the meeting at 11:25AM. We are recessed till Thursday AM1.

**Thursday, May 11th, 2017, AM1**

1. The Chair, Rich Kennedy, called the meeting to order at 8:03 local.
   1. About 19 people in the room
2. The Chair used the current agenda meeting plan document 18-17/0071r01.
   1. Chair reviews slide 17, Thursday Agenda.
   2. The group approved the agenda with unanimous consent;
3. The Chair reviewed administrative items and what have been discussed from Slide #2-16;
4. Roger go through 18-17/75r0, Contribution to ITU-R WP1A
5. The Chair entertained a motion on Slide #19
   1. Motion: Approve the proposal in 18-17/75r0 and 18-17/76r2, and send to the EC for approval under OM 8.2.1, granting the 802.18 chair editorial license, and submission to ITU-R SG1 WP1A on or before 30-May-2017.
   2. Moved: Nikola Serafimovski
   3. Seconded: Mike Montemurro
   4. Discussion?
   5. Vote: 11/0/0 The motion is approved
6. The Chair reviewed Slide #20 and document 18-17/0073r0, IEEE 802.18  
   Draft Perspectives on WRC-19 Agenda Items
   1. Regulators in developing countries are interested in the IEEE 802 positions, to help them formulate their inputs
   2. Applicable agenda items
      * 1.12 ITS harmonization: Drafted
      * 1.13 IMT
      * 1.14 HAPS No IEEE 802 position
      * 1.15 275 GHz Done
      * 1.16 5 GHz Drafted
      * Issue 9.1.5 Drafted
   3. Formal “Position Paper”
   4. Do we want to submit as a sector member
7. The Chair discussed Slide #21, on Any Other business
   1. Teleconferences: Thursdays at 2:30pm ET through August 31, 2017 (approved in Vancouver)
   2. Next Teleconference: May 25th at 12:30pm EDT
8. We adjourned at 9:42AM. The Thursday AM2 meeting was cancelled.