Minutes of 802.18 (RR-TAG) Meeting

(Warsaw, Poland in September, 2016)

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 Warsaw, Poland, in September, 2016

**Tuesday, 13 Sep, 2016, AM2**

1. The Chair called the meeting to order at 10:32 local.
   1. 22 people in the room (12 voters present)
2. The Chair used the current agenda meeting plan document 18-16/0066r01.
   1. Chair reviews slide 2, proposed agenda.
      1. Review and approve the agenda
      2. Approve San Diego minutes
      3. Discussion items
         1. Regulatory work in progress
         2. Status of completed work
      4. Actions required
         1. FCC 16-89 mmWave FNPRM
         2. Vote WP5A liaison
         3. Terahertz WP5C liaison
      5. AOB and Adjourn
   2. Chair asked if any additions for the agenda.
      1. Nothing heard.
   3. Chair asked if any objections to approve agenda, by unanimous consent.
      1. Nothing heard, agenda approved by unanimous consent.
3. Chair reviews slides 3, 4, administrative meeting guidelines.
   1. On Slide #3: adding Allan Zhu from Huawei as the secretary of WG18.
4. July Meeting minute was approved by unanimous consent on slide#5.
   1. Document #: 18-16/0061r0
5. Chair discusses slide 7 and 8, on FCC 16-89 R&O
   1. Use of Spectrum Bands Above 24 GHz For Mobile Radio Services
      1. GN Docket No. 14-177
      2. 64-71 GHz Band
      3. Comment Date: September 30, 2016
      4. Reply Comment Date: October 31, 2016
   2. Basic information
      1. Open 64-71 GHz under Part 15.255
      2. No increase in EIRP limit
      3. Reject 60 GHz on board aircraft
      4. Request to include 71-72.5 GHz to enable 7 (2.16 GHz) channels instead of just 6, and add 72.5-76 GHz indoors, was denied to protect existing fixed links in the 71‑76/81‑86 GHz bands
         1. Seeking further information on this topic in the *FNPRM*
   3. Upper Microwave Flexible Use Licensing:
      1. Three licensed bands to make a substantial amount of spectrum available with similar rules tailored to the characteristics of each band; the basis for pursuing flexible use licensing in additional mmW bands going forward
   4. 27.5-28.35 GHz and 38.6-40 GHz bands:
      1. Upper microwave flexible use licenses for mobile operations in these bands using geographic area licensing
      2. 27.5-28.35 GHz band (28 GHz band): county-sized geographic area licenses
      3. 38.6-40 GHz band (39 GHz band): Partial Economic Area (PEA) licenses; co-primary Federal FSS and MSS allocations in the 39.5-40 GHz band, limited to military systems to be maintained
   5. 37-38.6 GHz band
      1. Band plan for continuity of commercial operations between the 37 and 39 GHz bands
         1. a limited number of Federal military sites across the full 37 GHz band to be protected, while maintaining the existing Federal fixed and mobile allocations throughout the band
         2. 37-37.6 GHz band co-primary shared access between Federal and non-Federal users
6. Chair discusses slide 9&10; ETSI Updates
   1. EN 300 328 ENAP comments addressed; in final phase
      1. V2.2.1 in planning; next meeting September 27-29
      2. Receiver requirements tightening
   2. EN 301 893 still resolving issues
      1. Clause 4 Technical requirements specifications complete
      2. Clause 5 Testing for compliance with technical requirements addressed at BRAN #89
         1. Testing backoff fairness too complex and costly
         2. Testing procedures generally approved; will finalize in November
      3. One teleconference before November to conclude
      4. Approval in November could have standard in place for June 12, 2017 RED deadline
      5. Next meeting November 21-25
   3. EN 301 598 (TVWS) – new rapporteur same as the old rapporteur
      1. Completed RED changes; will approve in November
   4. Technical Reports on 5 GHz band sharing
      1. TR 103 317 EESS in the 5 350 MHz to 5 470 MHz band
      2. TR 103 318 Radiolocation Systems in the 5 350 MHz to 5 470 MHz and 5 725 MHz to 5 850 MHz bands
         1. Completed “for now”; needs to be ready for January CPG PTD
      3. TR 103 319 Road Tolling and Intelligent Transport systems in the 5 725 MHz to 5 925 MHz band
         1. Significant progress; teleconferences set for finalizing in November
7. Chair discusses slide 11, 802.15.3d Liaison to WP5C
   1. Cover Letter and proposed changes in the Draft report WP5A:
      1. IEEE 802.18-16-0077-00-0000: Draft LS to WP5A CHAR above 275GHz
      2. IEEE 802.18-16-0078-01-0000: Draft Reply ITU-R M.300GHZ\_MS\_CHAR
   2. Cover Letter and proposed changes in the Draft report WP5C:
      1. IEEE 802.18-16-0076-00-0000: Draft LS to WP5C CHAR above 275GHz
      2. IEEE 802.18-16-0075-00-0000: Draft Reply ITU-R F.300GHZ\_FS\_CHAR
   3. Chair reviewed document 18-16/77r0 (cover letter of 18-16/78r0)
   4. Chair reviewed document 18-16/78r1
   5. Chair reviewed document 18-16/75r0
   6. Chair asked people review the document, gather comments from WG15, update the document, then review again and approve on Thursday.
8. Chair discusses slide 12; Actions Required
   1. Complete FCC 16-89 FNPRM response (18-16/73r00)
      1. FCC denied to extend beyond 71G because no one provided persuasive technical arguments on feasibility;
      2. Chair reviewed transmit power issue: the reason why FCC denied our request for increasing the transmit power and why we need to do more work to convince FCC;
      3. Chair reviewed 60GHz transmitters on-board aircraft issue;
      4. Chair believed since we don’t have more technical arguments, we don’t need to response to the FNPRM.
      5. One amended that we don’t have enough time to response either.
   2. Vote to approve WP5A liaison
      1. Chair reviewed document IEEE 60GHz Liaison Letter to ITU-R (18-16/74r6)
      2. We need to submit technical characteristics to ITU-R in order to avoid being locked down by them
      3. IEEE contribution due by 10/31.
      4. Version r7 produced after some editorial changes.
      5. Motion on Slide #15, Motion #1
         1. Approve <https://mentor.ieee.org/802.18/dcn/16/18-16-0074-07-0000-wp5a-liaison-re-60-ghz.docx> as our liaison to ITU-R WP5A, and submit to the IEEE 802 EC for 10-day ballot and transmittal to the ITU-R liaison. 802.18 Chair and ITU-R Liaison have editorial privileges.
         2. Moved by: John Notor
         3. Seconded by: Jim Petranovich
         4. Result: Y:N:A=11:0:1
   3. Can we resolve voting issues?
      1. Chair talked about improving 802.18 voting process
      2. 18 voting members with poor attendance including retired member
      3. 12 votes needed to approve outgoing documents
      4. 4 people appeared in a teleconference, cannot approve anything (802.18 has 18 voting members)
      5. Chair will make clear if votes will happen during teleconference;
      6. Email vote is another way. But many people aren’t on the reflector;
9. Completed agenda content for today.
10. Chair reviewed agenda for Thursday
    1. Thursday AM1 will be at Baltic 2.
11. Chair reminded the members to record their attendance.
12. Chair recessed the meeting at 11:38AM. We are recessed till Thursday AM1.

**Thursday, 15 Sep, 2016, AM1**

1. Chair called the meeting to order at 08:02 local.
   1. 21 people in the room (11 voting members present)
2. Chair used the current agenda meeting plan document 18-16/0066r02
   1. We have only one agenda item left: WP5A/WP5C terahertz liaison response
   2. Chair review the agenda and what we have done for the week;
3. Thomas reviewed 18-16/78r01, “draft reply to ITU-R 300GHz ms char”, providing technical and operational characteristics and applications of the land mobile service operating in the frequency band 275-450 GHz.
   1. Nothing changed
4. Thomas reviewed 18-16/76r00, “IEEE 802 60 GHz Liaison to ITU-R WP 5C”
   1. Some editorial changes have been made;
   2. Version r1 produced;
5. Chair entertained motion #2 on Slide #19
   1. Motion: Approve <https://mentor.ieee.org/802.18/dcn/16/18-16-0078-01-0000-draft-reply-itu-r-f-300ghz-ms-char.docx>, with document cover sheet <https://mentor.ieee.org/802.18/dcn/16/18-16-0077-01-0000-draft-ls-to-wp5a-char-above-275ghz.docx> as our liaison to ITU-R WP5A, and submit to the IEEE 802 EC for 10-day ballot and transmittal to the ITU-R liaison. 802.18 Chair and ITU-R Liaison have editorial privileges.
   2. Moved by: John N.
   3. Seconded by: Steve P.
   4. No discussions
   5. Vote: 11/0/0 Motion passes
6. Chair entertained motion #3 on Slide #20
   1. Motion: Approve <https://mentor.ieee.org/802.18/dcn/16/18-16-0075-00-0000-draft-reply-itu-r-f-300ghz-fs-char.docx>, with cover sheet <https://mentor.ieee.org/802.18/dcn/16/18-16-0076-01-0000-draft-ls-to-wp5c-char-above-275ghz.docx>as our liaison to ITU-R WP5C, and submit to the IEEE 802 EC for 10-day ballot and transmittal to the ITU-R liaison. 802.18 Chair and ITU-R Liaison have editorial privileges.
   2. Moved by: Jay H
   3. Seconded by: Tim J
   4. No discussions.
   5. Vote: 11/0/0 Motion passes
7. Chair entertained motion #4 on Slide #21
   1. Motion: Approve one hour weekly teleconferences Thursdays at 2:30 pm ET until December 29, 2016
   2. Moved by: John N.
   3. Seconded by: Steve P.
   4. No discussions.
   5. Vote: Unanimous consent
8. Next teleconference: Sep 29th, 2:30PM ET.
9. Chair reminded the members to record their attendance.
10. Chair proposed to adjourn at 8:47AM local time. No objections.
    1. Meeting adjourned.
    2. Thursday, AM2 meeting was cancelled.