Minutes of 802.18 (RR-TAG) Meeting

(Atlanta, George USA, May 2019)

IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: 13-17 May 2019 | | | | |
| Name | Affiliation | Address | Phone | email |
|  | | | | |
| Author(s): | | | | |
| Timothy Jeffries | Futurewei Technologies | Dallas, Texas | (469)277-5912 | [tjeffries@futurewei.com](mailto:tjeffries@futurewei.com) |
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| Officer presiding: | | | | |
| Jay Holcomb, Chair | Itron, Inc. | Liberty Lake (Spokane) WA | (509)891-3281 | [jholcomb@ieee.org](mailto:jholcomb@ieee.org) |

Abstract

Minutes of IEEE 802 RR-TAG Plenary meeting in Atlanta, George USA in May 2019

**Tuesday, May 14th, 2019, AM2**

**CALL TO ORDER [ADMINSITRATIVE]**

1. The Chair, Jay Holcomb (Itron), called the meeting to order at 10:35 local.
   * About 30 people in the room (See list below)
2. The Chair used the agenda meeting plan document 18-19/0061r1
3. Chair reviewed Slides 2-4, Call to Order / Administrative Items, and subsequent Guidelines and rules governing Meetings and Participation in IEEE 802
4. Chair reviewed Slide 5, the meeting Agenda for the week:
   * Call to Order
   * Administrative items
   * Approve agenda & last minutes
   * Discussion items
     + EU Items
       - General items, ETSI, CEPT, etc.
     + 5GAA requests FCC to look forward
     + General Discussion Items
       - 1. Update to ITU-R SM.2352 on THz communications.
         2. WRC-xx connections for IEEE 802
         3. ACMA comments status
         4. Main Topics covered in Teleconferences since March.
     + Teleconferences moving forward.
   * Actions required
   * AOB and Adjourn
5. Chair called for Motion to *Approve* the meeting agenda, as stated on Slide #6
   * ***Motion: To approve the agenda as presented on previous slide***
     + ***Moved by: Carl Kain (Noblis)***
     + ***Seconded by: Tim Jeffries (Futurewei)***
     + ***Discussion - None***
     + ***Results: Chair called for Unanimous consent with no objections***
     + ***Motion PASSED***
6. Chair called for Motion to *Approve* March 2018 meeting minutes, as stated on Slide #6
   * + ***Motion: To approve the minutes from the IEEE 802.18 Vancouver plenary 14-16 March 2019 in document:*** [***https://mentor.ieee.org/802.18/dcn/19/18-19-0032-00-0000-minutes-yvr-plenary-12-14mar2019-rr-tag.docx***](https://mentor.ieee.org/802.18/dcn/19/18-19-0032-00-0000-minutes-yvr-plenary-12-14mar2019-rr-tag.docx) ***Posted: 16-Mar-2019 09:57:33 ET***
     + ***Moved by: Tim Jeffries (Futurewei)***
     + ***Seconded by: David Bodly (Broadcom)***
     + ***Discussion: None***
     + ***Results: Chair called for Unanimous consent with no objections***
     + ***Motion PASSED***
7. Chair reviewed Slide #7 and asked the group if anyone has an interest in being the 802.18 Vice-Chair?
   * Needs to be a member of the SA and send a declaration of term commitment and affiliation letters to the EC.
8. Chair reviewed Slide #8 and asked the group if anyone has an interest in being the 802.18 Secretary?
   * Needs to be a member of the SA.

**MEETING DISCUSSIONS/ACTIONS**

1. **EU Items to Share**: The Chair presented Slides 9-10 noting the relevant actions in the EU and asked for any additional updates or new information.
   * **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) N**ext Meeting #102, 17-20 June, Sophia Antipolis** 
     + BRAN EN 302 567 E&Y comments resolution meeting providing justification (see BRAN(19)001001) as to why additional Rx Requirements are not required in the 60GHz Standard
   * **ETSI - ERM -** [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **next meeting #55, 02-03 July**
     + Working on Rx requirements for the EN 300 328 to send to ERM #68 in June.
     + SRDoc on 2.4 GHz working on PSD to remove, potential revision to ERC Rec. 70-03, etc.
       - New ERM WI on ETSI SRDoc resulting in draft TR 103 665 v0.0.3.
       - A call for new example technology/application to be included in SRDoc for July f2f.
   * **ETSI – ERM** - [<TG-UWB>](https://portal.etsi.org/tb.aspx?tbid=729&SubTB=729) **meeting #49, 08-09 May, Leinfelden DE, last week.**
     + Amended ECC Decisions ECC/DEC/(06)04 and ECC/DEC/(07)01, published 08May19
     + Important for the use of 15.4z in vehicular environments, EC Decision expected mid May to mid June
     + Next update of UWB regulation in Europe not expected before 2021/22. Topics for that update:
       - Fixed out-door in the band above 6GHz
       - Simplified vehicular regulation above 6GHz
       - Higher power levels for in-door above 6GHz
       - Potential band extension up to 10.6GHz
   * **Delegated Act on C-ITS is still not fully in force**
     + EU parliament didn’t approve a proposed rejection but EU Council has agreed on a 2 Month extension of the potential objection period until 13 July 2019
   * **CEPT** 
     + CEPT initial draft proposal for updated ITS 5.9GHz regulation has been presented including an extension up to 5925MHz with sharing with Urban Rail in the band 5915MHz to 5925MHz.
       - CEPT WG FM will further work on the draft proposal, Finalisation planned for Q1/Q2 2020. Due to WRC 19 it is not possible to be earlier
   * **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/)- no meetings planned; **next meeting of WGSE, 27-29 May, Prague**
     + All comments resolved on ECC report 302, sharing and compatibility studies related to WAS/RLANs, see [SE45(19)004A1R1](https://urldefense.proofpoint.com/v2/url?u=https-3A__cept.org_Documents_se-2D45_50936_se45-2D19-2D004a1r1-5Fdraft-2Decc-2Dreport-2D302-2Dafter-2Dse457-2Dwith-2Dtrack-2Dchanges&d=DwMFaQ&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=pQYZSZRYXVLznZvws7AKRdYkfZqMI2NCND1w-kCXznA&s=iBYwsPM1oRRjlU5VyaRuWNTMZoQr2O4lZQwCFO5jBoY&e=) and [SE45(19)004A2](https://cept.org/Documents/se-45/50937/se45-19-004a2_table-of-resolution-of-comments-from-pc-on-draft-ecc-report-302)
     + There was consensus to submit the agreed final draft version of ECC Report 302 to WGSE for consideration for publication at their next meeting in Prague.
   * **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next meeting #7, 16-17 May, Copenhagen**
     + Working on Report A on feasibility of WAS/RLANs in 5925-6425MHz, to get to the EC.
     + There are 3 new contribution documents for the meeting this week.
2. **5GAA requests the Commission consider a forward-looking approach**

* The Chair opened discussion by providing background on the 5GAA Wavier and its latest *ex parte*, as well as the actions to-date taken by the group.
* Latest filing proposes the FCC grant permission for C-V2X operations in the 5.865-5.925 GHz band, allowing for C-V2X to achieve its evolution path to 5G; and Maintain the 5.855-5.865 GHz frequencies for continued operations of the limited number of DSRC radios that have been deployed and any future DSRC radios that may be deployed.
  + Proceeding under discussion: <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-357&sort=date_disseminated,DESC>
  + Ex parte -- 05 April 2019 (newest) and relevant 03 April filing <https://ecfsapi.fcc.gov/file/1040534706725/5GAA%20Ex%20Parte%20Notice%204.5.19.pdf>
  + <https://mentor.ieee.org/802.18/dcn/19/18-19-0051-00-0000-5gaa-waiver-ex-parte-notice-4-5-19-fcc-gn-18-357.pdf>
* A draft response was presented by John Kenny (Toyota) to the group for discussion.
* The draft, at a high level, intend to promote DSRC as offering fair coexistence, backward compatibility and interop, while showing 5GAA as offering no interop or backward compatibility even within its own technology; e.g., LTE vs. NR.
* Comments and suggestions made on the draft response will be folded into the response and presented at the next session (Thursday AM1).

1. **General Discussion**
   * **Chair of 802.15.3d/THz IG has brought up, ITU-R SM.2352 on THz communications needs to be updated.**
     + The chair noted that 802.15.3d/THz IG will be working on the updated text for review in 802.18 and current plan is to share with 802.15 at the July Plenary and approve it.
   * **Question has been asked, what are our (IEEE 802) connections / mechanism into WRC-xx, e.g. WRC-19?** 
     + Paul Nikolich (802 Chair), asked for suggestion and how and/or if IEEE 802 can/should get involved in WRC-19.
     + It was noted that, generally, communications is through the national and/or regional (e.g. CTEL, CEPT, …) delegations.
     + IEEE as sector member may also directly engage the ITU-R by joining in the ITU-R meetings.
     + For purposes of WRC-19 however it is too late in the process of IEEE to engage but we should start looking at WRC-2023 now.
     + The 802.18 chair will work with Purva R., IEEE staff connected to ITU-R, to assess what be done to be more pro-active.
     + From the CEPT side there is the CPG-PTA or PTD groups that may have some info for WRC-19 and how CEPT is approaching WRC-19.

* **ACMA Five-year outlook comment status**
  + Chair noted there have not been enough replies yet to upload, the latest is Wednesday.
  + Chair is working on 18-19/0058r06.
* **Other notable topics covered in teleconferences since March plenary**
  + Ofcom Consultation on enabling opportunities for innovation, w/2390-2400MHz
    - Comments sent in, and acknowledged receipt
  + NPRM Expanding Broadband to the 896 / 935 MHz PLMR Band, was passed.

1. **Mid-Week Straw poll:**

* For a meeting venue in the future, looking at Istanbul, Turkey.
  + Should we continue to pursue the possibility?
  + Yes:10 | No: 1

13. Chair recessed until Thursday AM1, at 12:20 local.

**Thursday, May 16th, 2019, AM1**

Chair reconvened the meeting @ 8:01 reminding participates of their continued compliance under IEEE802 rules.

1. Chair presented the 5GAA Waiver item for the Thursday session noting that a revised letter has been updated for discussion.
   * Upon review and after minor comments, the IEEE 802.18 response to the FCC with respect to the 5GAA ex parte was voted on.
   * **Motion:** Move to approve the comments <https://mentor.ieee.org/802.18/dcn/19/18-19-0064-03-0000-5gaa-ex-parte-05apr19-response-ieee-802-fcc-gn-18-357.docx> response to 5GAA’s ex parte to the FCC in GN docket 18-357 of 05 April 2019. With the chair of 802.18 to have editorial privileges and send to the LMSC(EC) for review/approval and submission to the FCC.
     + ***Moved by: Carl Kain (Noblis)***
     + ***Seconded by: Mike Lynch (Lynch &Associates)***
     + ***Discussion? None***
     + ***Vote: \_9\_Y / \_0\_N / \_1\_A***
     + ***Motion - Passed***
   * Comment was made that the IEEE 802.18 also should a copy to the USDOT.
   * **Motion:** Move to approve the comments <https://mentor.ieee.org/802.18/dcn/19/18-19-0064-03-0000-5gaa-ex-parte-05apr19-response-ieee-802-fcc-gn-18-357.docx> response to 5GAA’s ex parte to the FCC in GN docket 18-357 of 05 April 2019. With the chair of 802.18 to have editorial privileges and permission to add cover letter and send to the LMSC(EC) for review/approval and submission to the US DoT.
     + ***Moved by: Tim Jeffries (Futurewei)***
     + ***Seconded by: Mike Lynch (MJLynch &Associates)***
     + ***Discussion? None***
     + ***Vote: \_6\_Y / \_0\_N / \_2\_A***
     + ***Motion - Passed***
2. **Action Items:**
   * Chair noted two actions items
     1. Chair to contact IEEE staff and liaison on how to connect better into ITU-R/WRC-xx.
     2. Chair 5GAA ex parte response to the LMSC for ballot
3. **Straw Poll**

* Chair called for a straw poll:

How many people would like to come back to this venue?

Yes -- \_13\_\_ No -- \_0\_\_

Like the Social – \_11\_\_ Disliked the Social – \_0\_\_

Did not go to Social – 2 (Too much food)

How many are okay to be in Atlanta twice in 2020, March(downtown), Sept (maybe here)?

Yes -- \_7\_\_ No -- \_6\_\_

1. **Closing**

* Chair called for AOB - none
* Chair noted registration is out for July 2019 Plenary in Vienna, Austria.
* Registration also is out for September 2019 Wireless Interim at the JW Marriott Hotel, Hanoi, Vietnam. (We need to fill 60% of the room block by 11 July, or lose some of the remaining room block).
* Chair Adjourned the meeting on May 16th, 2019 @ 9:08am

Attendance, from iMAT (with a couple of Affiliation updates):

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Last Name | First Name | | Affiliation | Employer | Tue | Thu |
| Baeten | Robert |  | Qorvo | Qorvo | 1 | 1 |
| Berens | Friedbert | v | FBConsulting Sarl | FBConsulting Sarl | 1 | 1 |
| Boldy | David | v | Broadcom Corporation | Broadcom Inc | 1 | 1 |
| de Vegt | Rolf | v | Qualcomm Incorporated | Qualcomm Incorporated | 1 |  |
| Fischer | Michael |  | NXP Semiconductors | NXP Semiconductors | 1 |  |
| Furuichi | Sho | v | Sony Corporation | Sony Corporation | 1 | 1 |
| Godfrey | Tim | v | EPRI | EPRI | 1 | 1 |
| Haran | Onn |  | Autotalks | Autotalks | 1 |  |
| Harrington | Timothy | v | Pro-ID | Pro-ID Consulting |  |  |
| Heile | Robert | v | DecaWave | Self Employed |  |  |
| Hiertz | Guido | v | Ericsson AB | Ericsson AB | 1 | 1 |
| Holcomb | Jay | v | Itron Inc. | Itron Inc. | 1 | 1 |
| Ikegami | Tetsushi |  | Meiji University | Meiji University |  | 1 |
| Inoue | Yasuhiko | v | NTT | NTT |  |  |
| Jauh | Alan |  | Unisoc Comm. | UNISOC COMMUNICATIONS INC. | 1 | 1 |
| Jeffries | Timothy | v | Futurewei Technologies | Futurewei Technologies | 1 | 1 |
| Jones | Vincent Knowles IV | | Qualcomm Incorporated | Qualcomm Incorporated | 1 | 1 |
| Kain | Carl | v | Noblis, Inc. | Noblis, Inc. | 1 | 1 |
| Kenney | John |  | TOYOTA InfoTechnology Center U.S.A. | TOYOTA InfoTechnology Center U.S.A. | 1 | 1 |
| Lansford | James | v | Qualcomm | Qualcomm Incorporated | 1 |  |
| Lepp | James | v | BlackBerry | BlackBerry | 1 |  |
| Li | Huan-Bang | | NICT | NICT | 1 | 1 |
| Lynch | Michael | v | MJ Lynch & Associates, LLC. | MJ Lynch & Associates, LLC. |  | 1 |
| Marks | Roger | v | EthAirNet Associates; Huawei | EthAirNet Associates |  |  |
| Max | Sebastian | v | Ericsson AB | Ericsson | 1 | 1 |
| Mody | Apurva | v | BAE Systems | BAE Systems |  |  |
| Nikolich | Paul | v | SAMSUNG | Self | 1 |  |
| porat | ron | v | Broadcom Corporation | Broadcom Corporation |  |  |
| Rolfe | Benjamin |  | Blind Creek Associates | Blind Creek Associates | 1 | 1 |
| Sadeghi | Bahareh |  | Intel Corporation | Intel Corporation | 1 |  |
| Salazar Cardozo | Ruben E | v | Landis Gyr Group Worldwide | Landis Gyr Group Worldwide | 1 |  |
| Sand | Stephan |  | German Aerospace Center (DLR) | German Aerospace Center (DLR) | 1 |  |
| Sarris | Ioannis |  | u-blox | u-blox | 1 | 1 |
| Sato | Naotaka | v | Sony Corporation | Sony Corporation | 1 |  |
| SAUER | PETER | v | Microchip Technology, Inc. | Microchip Technology, Inc. |  |  |
| Sherlock | Ian | v | Texas instruments | Texas Instruments Incorporated | 1 | 1 |
| Stanley | Dorothy | v | Aruba Networks, Inc. | Hewlett Packard Enterprise |  |  |
| Verso | Billy | v | DecaWave | DecaWave |  |  |
| Wang | Lei | v | Huawei R&D USA | Huawei R&D USA | 1 |  |
| Yang | Steve TS |  | MediaTek Inc. | MediaTek Inc. |  | 1 |
|  |  |  |  |  | 28 | 20 |