IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 12-14 Nov 2019 |
| Name | Affiliation | Address | Phone | Email |
|  |
| Author(s):  |
|  |  |  |  |  |
|  |
| Author and Officer presiding:  |
| Jay Holcomb, Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | +1(509) 891-3281 | jholcomb@ieee.org |

Abstract

These are the Minutes of the IEEE 802 RR-TAG ATL Wireless Interim face to face 12-14 Nov 2019

Chair calls the meeting to order at 10:33 local, Tuesday 14 Nov 2019.

1. Chair presents slides 2-6 of 802.18-19/0142r01, the call to order at 10:33 local and reviewed administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-19/0142r01, the agenda:
	1. **Call to Order**
		1. Attendance server is open
	2. **Administrative items**
		1. Need someone to take a few notes, Peter Ecclesine, Cisco Systems volunteers
	3. **Approve agenda & last minutes**
		1. Looking for an 802.18 Vice-Chair & Sec.
	4. **Discussion items**
		1. EU Items
		2. ITU-R Items
		3. General Discussion Items
	5. **Agenda for Thursday**
		1. General Discussion Items
	6. **Teleconferences moving forward**
	7. **Actions required**
		1. Anything new from this week
	8. **AOB and Adjourn**
3. Chair presents slides 8 & 9, Administrative – Motions and more
	1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Stuart Kerry (Ruckus)

Seconded by: Vijay Auluck (self)

Discussion? None

Vote: Approved by Unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Wireless Interim 17-19 Sept 2019 in document:[**https://mentor.ieee.org/802.18/dcn/19/18-19-0127-00-0000-minutes17-19sep19-rr-tag-wireless-interim-in-han.docx**](https://mentor.ieee.org/802.18/dcn/19/18-19-0127-00-0000-minutes17-19sep19-rr-tag-wireless-interim-in-han.docx) **Posted:** 27-Sep-2019 08:50:47 ET

Moved by: Ben Rolf (Blind Creek Assoc)

Seconded by: Stephen Palm (Broadcom Corp)

Discussion? None

Vote: Approved by Unanimous consent

* 1. The Chair noted the RR-TAG is in need of a vice-chair and secretary**, is there anyone that can help? no response**
		1. Slides 10 & 11 have responsibilities and requirements for these offices
	2. Also added to slide 9, this is the plenary before the plenary next March which is the biennial elections for Chair and Vice-Chair. Any nominations or volunteers are encourage to be known.
		1. Note must be an IEEE SA member and Please remember to submit your letter of endorsement and disclosure of affiliation to the IEEE 802 Recording Secretary, John D’Ambrosia, as soon as possible, but not later than the March 2020 opening EC meeting.
1. Chair presents slides 12-15 EU Items to share
	1. Also see agenda document 18-19/0087.
	2. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meetings #104, 02-06Dec19-Sophia Antipolis**
		1. Chair Vote: Guido Hiertz elected
		2. GoTo Meetings since: Spectrum mask (puncturing), 5.8GHz, Test Signal for Preamble Detect test. Some agreements but in general all topics will be further discussed at the next Face to Face meeting and additional GoTomeetings have been scheduled
		3. 6GHz Standard work started EN 303 687 v0.0.1 on ETSI drafting tool
			1. *A call was made for contributions for Channel access mechanisms, Channelization/Guardbands, Receiver blocking levels.*
		4. EN 302 567 sent to HAS Consultant (E&Y) for second time as first time had a negative review. Aim is to send to ENAP in December meeting
		5. Web meeting on 21Nov will be on the EN 301 893 revision (5.8GHz)
		6. Then a web meeting on 27Nov will be on the spectrum mask, punctured channels. Will review contributions and more.
	3. **ETSI - ERM -** [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **meeting # \_\_\_\_ (07Nov, online, 2.4 GHz SRDoc)**
		1. One Goto meeting 7th Nov (last week) and continued discussions on 2.4GHz SRDoc TR 103 665
		2. One Goto meeting scheduled for 19th Dec to further discuss 2.4GHz SRDoc TR 103 665
	4. **ETSI – ERM** [<TG-UWB>](https://portal.etsi.org/tb.aspx?tbid=729&SubTB=729) **next meeting #51, 27-28Nov, BREMEN, DE**
		1. Ongoing work on Tx and Rx measurements Stds.
		2. Also working how to get through no process to release harmonized stds. .
	5. **ETSI** [<ERM>](https://portal.etsi.org/tb.aspx?tbid=286&SubTB=286) **next meeting #70, 17-20mar20, Sophia Antipolis**
		1. Vote 17th Oct : Final draft of EG 203 336 Rejected
		2. 25/26 Nov ERM-EG 203 336 comments resolution meeting to address further comments.
	6. ETSI – ERM [<TG-UWB>](https://portal.etsi.org/tb.aspx?tbid=729&SubTB=729) next meeting #51, 27-28 Nov, BREMEN, DE
		1. Ongoing work on Tx and Rx measurements Stds.
		2. Also working how to get through no process to release harmonized stds. .
	7. **ETSI ERM** [**<TG37>**](https://portal.etsi.org/tb.aspx?tbid=620&SubTB=620) **and TC ITS:**
		1. work on harmonised standard EN 302 571
			1. main issues: harmonisation between IEEE and 3GPP technology
		2. work on coexistence standards to ensure coexistence between IEEE and 3GPP technologies in the band 5855MHz - 5925MHz
			1. TR 103 766: TR on co-channel co-existence between ITS-G5 and LTE-V2X
			2. TR 103 667: TR on feasibility & performance of solutions for shared use of 5.9 GHz spectrum by ITS-G5 & LTE-V2X
				1. Status: Early Draft in ERM TG37
		3. **Receiver requirements in harmonised standard 302 571**
			1. TR 103 688; status: early draft
		4. **Access layer standards for IEEE technology and 3GPP technology in the band 5855MHz to 5925MHz**
			1. EN 302 663: ITS-G5 Access layer ITS 5 GHz
				1. Include enhanced receiver parameters as defined in IEEE802.11-2016and multipath fading channel requirements
				2. Status: in final voting until 23 Dec 2019
			2. EN 302 303: LTE-V2X Access layer ITS 5 GHz
				1. Status: in final voting until 23 Dec 2019
	8. **CEPT–ECC** [**<SE24>**](https://cept.org/ecc/groups/ecc/wg-se/se-24/client/introduction/) **next meeting #99, 13-17 Jan 20 Copenhagen**
		1. SE24 WI63 on updated UWB regulation; fixed outdoor usage; simplified vehicular usage; increased indoor power; Schedule: 31. May 2021
		2. SRDMG: comments resolution from PC on ITS regulation ECC Dec 08/01 in the band 5855MHz to 5925MHz; Public Consultation until 15. November 2019
			1. Main issues here: sharing with Urban Rail in the band 5915MHz to 5925MHz and coexistence between IEEE and 3GPP technology.
	9. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next meeting #9, 09-11 Dec 19, ECO Copenhagen**

#10, 20-22 Jan 20, tbd, Czech Republic

* + 1. Re-opened until FM57 complete.
		2. Complementary Studies identified at WGFM94 (LS to WGSE) dealing with the short-term protection of fixed service point-to-point applications from WAS/RLAN indoor-only deployments as well as potential WAS/RLAN portable outdoor devices with lower power levels
	1. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next meeting #9, 22-24 Jan 20, tbd, Czech Republic**
		1. FM57 resolved all the comments from the public consultation on the draft CEPT Report 73 (“Report A” on feasibility of coexistence scenarios for WAS/RLAN in the band 5925-6425 MHz), sent to ECC for approval for publication.
		2. FM57 started the development of the draft ECC Decision on WAS/RLAN in the band 5925-6425 MHz.
		3. Initial draft of the CEPT Report B based largely upon draft ECC Decision
		4. Started draft ECC Report to assess the feasibility of WAS/RLAN use on a national basis in the band 5725-5850 MHz, ensuring protection of road-tolling/smart tachograph and radars.
1. Chair presented slide 16, ITU-R items to share
	1. WRC-19 is in progress
		1. <https://www.itu.int/md/R16-WRC19-191028-TD/en>
		2. <https://extranet.itu.int/CookieAuth.dll?GetLogon?curl=Z2FsitesZ2Fwrc-raZ2FWRC-19&reason=0&formdir=10>
			1. To see the COM (committees), need a ties account.
	2. AI 1.16 is to deal with all the 5GHz bands. Need to watch for the outcome
		1. 5150-5250 lots of discussion, was shared before with many others.
		2. 5250 – 5350 also, resolutions 229 (2006) from before.
	3. 6GHz has 2 conflicting positions and working through this. Africa&ASMG
	4. Need to list out the 6ish AIs, we have an interest in to review on 21/22nov and on.
		1. <https://mentor.ieee.org/802.18/dcn/17/18-17-0073-07-0000-ieee-802-viewpoints-on-wrc-19-agenda-items.pptx>
		2. 1.12, 1.13, 1.15, 1.16, 9.1.5, 10
2. Chair presents slide 17, General Discussion Items.
	1. Items discussed in teleconferences since Sept:
3. Chair presents slide 18, Actions /AOB/Recess
	1. Actions required:
		* Look over ACMA consultation to discuss on Thursday
			1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0146-00-0000-acma-ifc-36-2019-compliance-priorities-20-21.docx>
	2. AOB before Recess to Thursday AM1.
		1. There is a discussion coming up with the IEEE-EU spectrum position statement compared to the IEEE-SA spectrum position statement, add to Thursday discussion.
		2. Is it okay to move Thursday’s start to 8:30? No objections.
			1. Ongoing? Yes
	3. We recessed until Thursday AM1(8:30 local), at 11:30 local
4. Chair reconvenes the meeting at 08:33 local Thursday
5. Chair presents slide 19 of agenda 18-19/0142r02, Thursday Agenda
6. **Reminder we are still under all IEEE policies as shown on Tuesday.**
	1. Attendance server is open.
	2. **Remember to state your name, affiliation, employer and/or clients first time you speak.**
	3. Note: For new copyright notice, 802.18 does not need to present, however for due diligence will attach to agendas to provide beforehand moving forward.
	4. Someone to take a few notes: \_\_jay\_\_\_
	5. Reminder 802.18 reciprocal credit from other WGs has been turned off.
	6. **Items from Tuesday or new**
		1. General Discussion:
			1. ACMA consultation
			2. APAC update
			3. FCC Items
			4. IEEE –EU spectrum position
			5. WRC-19 AI status
7. **Teleconferences moving forward**
8. **Actions Required**
9. **AOB**
10. **Adjourn**
11. Chair presents slide 20, General discussions
	1. **ACMA Consultation**
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0146-00-0000-acma-ifc-36-2019-compliance-priorities-20-21.docx>
		2. Note that ACMA's compliance priorities for 2019 to 2020 are as follows:
		3. 1. Telco consumer safeguards; 2. Small cell base stations for 4G and 5G
		4. 3. Unsolicited communications 4. News 5. Gambling
		5. 6. Interference and licencing compliance
		6. As we (ACMA) develop our compliance priorities for the 2020 to 2021 work program, we’d like you to send us your views on our current priority areas. We’d also like to hear about any new issues of public interest or those causing consumer harm.
		7. We reviewed the few questions in the consultation, came up with some one liner responses to most of the questions. See document 18-19/146r02. Then we decided we would try and respond.
		8. We would need to approve it next week in our teleconference to meet the deadline.

* 1. **General APAC update for last couple of months:**
		1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0144-00-0000-apac-update-jnovember-2019.pptx>
1. Chair presents slide 21, General discussions cont.
	1. **FCC items**
		1. FCC 6 GHz proceeding(s) 18-295/17-183 have several new filings, and and expected R&O at the 30 January Open Commission Meeting.
			1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-295&sort=date_disseminated,DESC>
			2. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=17-183&sort=date_disseminated,DESC>
		2. FCC Expanding Flexible use of the 3.7 GHz to 4.2 GHz Band , 18-122, also expected at January open call.
			1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-122&sort=date_disseminated,DESC>
	2. **IEEE-EU spectrum position paper update:**
		1. <https://mentor.ieee.org/802.18/dcn/18/18-18-0028-02-0000-draft-ieee-european-public-policy-position-statement-on-spectrum-management.docx>
		2. The IEEE SA position that the RR-TAG help develop, we had requested to use in the EU, in place of theirs:
			1. <https://mentor.ieee.org/802.18/dcn/18/18-18-0010-10-0000-sa-use-of-spectrum-draft-position-orig06dec17.docx>
		3. The member that had some further input was not able to make this meeting, so will pick up in teleconferences soon.
2. Chair presents slide 22, General discussions cont.
	1. **From UTC session this week, current status of some WRC-19 AIs:**
	2. **1.12 ITS in the Mobile Service**
		1. Proposing alignment with ITU-R M.2121
	3. **1.13 IMT-2020 (5G)**
		1. No change approved for bands 31.8 –33.4 GHz, 47.0 –47.2 GHz, 71.0 –76.0 GHz and 81.0 –86.0 GHz , other bands still in progress
	4. **1.15 275 GHz**
		1. No results yet
	5. **1.16 RLAN (Wi-Fi) at 5 GHz**
		1. No change approved for bands 5250 –5350 MHz, 5350 –5470 MHz, 5850 –5925 GHz, other bands still in progress
		2. Outdoor usage proposed for band 5150 –5250 MHz
	6. **9.1.5 Radar Foot Notes (FNs)**
		1. Compromise to amend the footnotes in discussion
	7. **9.1.8 Machine-type communication (MTC)**
		1. No Change –Approved in Plenary
3. Chair presents slide 23, Teleconferences
	1. **Motion: The 802.18 Chair or Chair designee is directed to conduct, as necessary, teleconferences on Thursdays at 15:00 ET through 07 May 2020**
		1. Moved by: Stuart Kerry (Rukkus)
		2. Seconded by: Mike Lynch (MJLynch Assoc.)
		3. Discussion? None
		4. Passed by Unanimous Consent

* + 1. It was requested to have the chair open up the call 10mins early.
1. Chair presents slide 24, Actions required
	* **After 1st of the year, THz submission document back to 802.15, with update on lead in paragraph.**
	* **Chair setup WRC-19 IEEE 802 viewpoints outcomes from WRC-19.**
	* **Chair setup start of IEEE 802 viewpoints for WRC-23 agenda items.**
	* **Chair to setup the ACMA comments to vote on in the 21 Nov teleconference**

* 1. Ongoing:
		1. WPT use of license-exempt bands and UWB in cell phones
		2. Digital Divide, how can we help?
1. Chair presents slide 25 Any Other Business
	1. Nothing brought up
	2. Straw Polls

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

Yes - 11

No – 6

Liked the Social – 4

Disliked the Social – 0

Did not go to Social – 10

 Membership requested a couple of other straw poles.

* Would like more networking as p/o of the social and less “entertainment”.
* Yes - 15
* No – 4
* Should social $s be p/o of the attendance fee, as part of the meeting.
* Yes - 15
* No - 6
1. Chair presents slide 26, Adjourn
	1. **Next teleconference: 21 Nov 2019 – *15:00 – <15:55* ET**
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-13-0000-teleconference-call-in-info.pptx> **(*or latest)***
		2. Note: If the call-in link doesn’t work send the Chair an email right away.
		3. All late changes/cancellations will be sent out to the 802.18 list server.
	2. **Adjourn:**
		1. Agenda complete, any objection to Adjourn.
		2. None heard, we are Adjourned at 09:37 local
		3. The next face to face meeting of the 802.18 RR-TAG will be at the IEEE 802, 12–17 Jan. 2019 Wireless Interim in the Hotel Irvine, Irvine, California, USA
			1. Normal time slots, Tuesday AM2 and Thursday AM1 (8:30 start)

Meeting attendance for RR-TAG (Tuesday, 12-Nov-2019, AM2 10:20 - 12:30) – 28 attendees, 26 voters

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Current Involvement Level** | **Affiliation** |
| Voter | Name | Affiliation |
| v  | Auluck, Vijay | Self |
| v  | Berens, Friedbert | FBConsulting Sarl |
| v  | Boldy, David | Broadcom Corporation |
|  | Cotton, Michael G | NTIA |
| v  | de Vegt, Rolf | Qualcomm Incorporated |
| v  | Ecclesine, Peter | Cisco Systems, Inc. |
| v  | Godfrey, Tim | Electric Power Research Institute, Inc. (EPRI) |
| v  | Harrington, Timothy | Pro-ID Consulting |
| v  | Hiertz, Guido | Ericsson AB |
| v  | Holcomb, Jay | Itron Inc. |
| v  | Jeffries, Timothy | Huawei Technologies Co. Ltd |
| v  | Jones, Vincent Knowles IV | Qualcomm Incorporated |
| v  | Kerry, Stuart | OK-Brit |
|  | Kim, Juha | Telecommunications Technology Association (TTA) |
| v  | Lansford, James | Qualcomm |
| v  | Lepp, James | BlackBerry |
| v  | Li, Huan-Bang | National Institute of Information and Communications Technology (NICT) |
| v  | Lynch, Michael | MJ Lynch & Associates, LLC. |
| v  | Palm, Stephen | Broadcom Corporation |
| v  | Petranovich, James | ViaSat, Inc. |
| v  | Rolfe, Benjamin | Blind Creek Associates |
| v  | Salazar Cardozo, Ruben E | Landis+Gyr AG |
| v  | Sarris, Ioannis | u-blox |
| v  | Sato, Naotaka | Sony Corporation |
| v  | Sherlock, Ian | Texas instruments |
| v  | Verso, Billy | DecaWave |
| v  | Wang, Lei | Huawei R&D USA |
| v  | YAGHOOBI, HASSAN | Intel Corporation |

Meeting attendance for RR-TAG (Thursday, 14-NOV-2019, AM1 07:40 - 10:00) 26 attendees, 24 voters

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Current Involvement Level** | **Affiliation** |
| Voter | Name | Affiliation |
|  | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| v  | Auluck, Vijay | Self |
| v  | Berens, Friedbert | FBConsulting Sarl |
| v  | Boldy, David | Broadcom Corporation |
| v  | de Vegt, Rolf | Qualcomm Incorporated |
| v  | Godfrey, Tim | Electric Power Research Institute, Inc. (EPRI) |
| v  | Hiertz, Guido | Ericsson AB |
| v  | Holcomb, Jay | Itron Inc. |
| v  | Inoue, Yasuhiko | Nippon Telegraph and Telephone Corporation (NTT) |
| v  | Jeffries, Timothy | Huawei Technologies Co. Ltd |
| v  | Jones, Vincent Knowles IV | Qualcomm Incorporated |
| v  | Kain, Carl | Noblis, Inc. |
| v  | Kerry, Stuart | OK-Brit |
| v  | Lansford, James | Qualcomm |
|  | Li, Huan-Bang | National Institute of Information and Communications Technology (NICT) |
| v  | Lynch, Michael | MJ Lynch & Associates, LLC. |
| v  | Palm, Stephen | Broadcom Corporation |
| v  | Petranovich, James | ViaSat, Inc. |
| v  | Salazar Cardozo, Ruben E | Landis+Gyr AG |
| v  | Sarris, Ioannis | u-blox |
| v  | Sato, Naotaka | Sony Corporation |
| v  | Sherlock, Ian | Texas instruments |
| v  | Verso, Billy | DecaWave |
| v  | Wang, Lei | Huawei R&D USA |