IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 25 April 2019 |
| Name | Affiliation | Address | Phone | Email |
|  |
| Author(s):  |
|  |  |  |  |  |
|  |
| Author and Officer presiding:  |
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Abstract

Minutes of the IEEE 802 RR-TAG Teleconference.

These are the Minutes of the IEEE 802 RR-TAG Teleconference, Thursday, 25 April 2019

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **21Feb** | **28Feb** | **07Mar** | **21Mar** | **28Mar** | **04Apr** | **11Apr** | **18Apr** | **25apr** |
| Auluck | Vijay | Self Employed |  |  | **X** | **X** | **X** |  | **X** | **X** |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **X** | **X** | **X** | **X** |  | **X** | **X** | **X** |  |
| Harrington | Tim | Pro ID & UWB Alliance |  |  |  |  |  | **X** |  | **X** |  |
| Holcomb | Jay | Itron Inc. | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| Kain | Carl | Noblis Inc. |  |  |  |  |  |  |  |  |  |
| Kerry | Stuart | ARRIS/Ruckus | **X** |  | **X** |  | **X** | **X** |  |  | **X** |
| Lepp | James | BlackBerry | **X** | **X** | **X** |  |  |  |  |  |  |
| Lynch | Mike | MJLynch Assoc | **X** | **X** |  |  | **X** | **X** | **X** | **X** | **X** |
| Nejatian | Alireza | Ericsson | **-** | **-** | **-** |  |  | **X** |  |  |  |
| Salazar  | Ruben | Landis Gyr Group WW |  |  |  |  | **X** |  |  |  |  |
| Yaghoobi | Hassan | Intel Corporation | **X** |  |  |  | **X** | **X** |  | **X** | **X** |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **21Feb** | **28Feb** | **07Mar** | **21Mar** | **28Mar** | **04Apr** | **11Apr** | **18Apr** | **25apr** |
| Awasthi | Antriksh | **Ericsson** |  |  |  |  |  |  | **X** |  |  |
| Fischer | Michael | NXP Semiconductors |  |  |  |  |  |  |  |  |  |
| Hamilton | Mark | Ruuckus |  |  |  | **X** |  |  |  |  |  |
| Kennedy | Richard | Self |  |  |  |  |  |  |  |  | **X** |
| Kenney | John (near v) | Toyota ITC | **X** | **X** |  | **X** |  |  | **X** | **X** | **X** |
| Levy | Joeseph | Interdigital | **X** | **X** |  |  | **X** |  |  |  |  |
| Nejatian | Alireza | Ericsson | **X** | **X** |  | **-** | **-** |  |  |  |  |
| Rajkotia | Purva | IEEE Staff |  |  |  |  |  |  |  |  |  |
| Rison | Mark | Samsung |  |  |  |  |  |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. and UWB Alliance |  |  |  |  |  |  |  |  |  |

Chair calls the meeting to order at 15:05 ET.

1. Chair presents slides 2, 3, and 4 of 802.18-19/0054r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 5, of 802.18-19/0054r01, the agenda:
	1. Call to Order
	2. Administrative items
		1. Need a recording secretary, Jay Holcomb (Itron)
	3. Approve agenda & last minutes
	4. Discussion items
		1. EU Items
		2. ACMA 5-year outlook
		3. 5GAA request FCC to look forward
		4. General Discussion Items
	5. Actions required
		1. ACMA comments possibly
		2. 5GAA comments
		3. Anything new today
	6. AOB and Adjourn
3. Chair presents slide 6, Administrative – Motions and more
	1. **Motion:** To approve the agenda as presented on previous slide
		1. Moved by: Stuart Kerry (Ruckus)
		2. Seconded by: Hassan Yaghoobi (Intel)
		3. Discussion? None
		4. Vote: Unanimous consent
	2. **Motion:** To approve the minutes from the IEEE 802.18 teleconference 18 April 2019 in document: [https://mentor.ieee.org/8 02.18/dcn/19/18-19-0053-00-0000-minutes-18april19-rrtag-teleconference.docx](https://mentor.ieee.org/8%2002.18/dcn/19/18-19-0053-00-0000-minutes-18april19-rrtag-teleconference.docx) Posted: 21-Apr-2019 15:33:55 ET
		1. Moved by: Mike Lynch (MJLync Assoc.)
		2. Seconded by: Jay Holcomb (Itron)
		3. Discussion? None
		4. Vote: Unanimous consent
	3. The Chair noted the RR-TAG is in need of a vice-chair and secretary**, is there anyone that can help? no response**
4. Chair presents slides 7-8, EU Items to share
	1. **General EU info:** [<ojeu>](https://eur-lex.europa.eu/oj/direct-access.html) [<HStds>](https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/)
		1. Work going on in ERM on co-existence studies between IEEE 802.11p/DSRC and 3GPP/C-V2X, both Co-channel and non-Co channels.
		2. EC V2X – Delegated Act, regulation latest was published 13.3.2019 and passed in Parliament now to member states.
		3. if no changes will go into effect 17may
	2. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next meeting #7, 24-25 Apr, Copenhagen**
		1. Meeting this week and running late into the evening, 25th.
	3. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next meetings #6, 26 Apr and #7, 16-17 May, Copenhagen**
		1. Should hear next week how the meeting goes tomorrow, 26 April.
5. Chair presents slide 9, **ACMA 5 year Outlook**
	1. <https://www.acma.gov.au/theACMA/draft-five-year-spectrum-outlook-2019-23>
	2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0048-00-0000-acma-draft-five-year-spectrum-outlook-2019-23.docx>
	3. Comments due 16 May 2019 (to EC by 03 May – 1 week left)
	4. There is some discussion on 5925MHz and above in Q2, Q4 and Q8.
		1. Some possible points for comments, though need to think IEEE 802 as a whole.
		2. Are they doing enough to make the 6GHz spectrum usable?
			1. Talks to spectrum space apparatus license
			2. We would want them to align with FCC and EU, and not this proposed licensing.
		3. They are looking at an older version of VNI, this relates to Q2.
	5. They should include white space database access for opportunistic, license-exempt use
		1. Actually, for any national body, not just ACMA, should have more focus using data bases for sharing and all. For the long term this the way the industry is going.
	6. Will continue to gather points and comment text, though only have 1 call to finalize. **One member will start up some text on a comment boiler plate form.**
	7. **As normal, any comment ready text is really needed.**
6. Chair present slides 10-11 5GAA requests that the Commission consider a forward-looking approach**.**
	1. Proceeding:
		1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-357&sort=date_disseminated,DESC>
	2. **New ex parte, 05 April 2019: (includes the 03 April ex parte)**
		1. <https://ecfsapi.fcc.gov/file/1040534706725/5GAA%20Ex%20Parte%20Notice%204.5.19.>[pdf](https://ecfsapi.fcc.gov/file/1040534706725/5GAA%20Ex%20Parte%20Notice%204.5.19.pdf)
		2. <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](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)
	3. **At the end they propose to re-band 75MHz of the 5.9GHz ITS spectrum:**
		1. 5850-5855 5MHz Reserve Band
		2. 5855-5865 10MHz 802.11 channel 172
		3. 5865-5905 40MHz for 5G-V2X
		4. 5905-5925 20MHz for LTE-V2X
	4. **We could respond to the 05 April ex parte, some points to consider**
		1. This is less DSRC bandwidth from original waiver, DSRC would be Chan. 172 only.
		2. Sharing in the band is not being accomplished as was one of the directives.
		3. Technology evolution does not work into this C-V2X approach
		4. How it affects the testing that the DoT has been doing and moving forward with.
		5. Note they want 4G and 5G in this.
	5. Hearing an NPRM could be out by end of summer, with some of this…
	6. As normal, any comment ready text is really needed.
	7. **Chair to send 802.11bd Chair a heads up and any inputs from 11bd would be great.**
		1. Can relate back to the PAR, like we did with earlier comments.
	8. DoT has a round table next week, limited audience, on looking forward.
	9. What is our goal, to file now or wait for next FCC action?
		1. **We should file now, and use 16 May, Thursday in Atlanta, as the goal.**
7. Chair presents slide 12, General Discussion Items.
	1. **Chair of 802.15.3d has brought up, ITU-R SM.2352 on THz communications needs to be updated. There is an IUT-R WP1 meeting ending 05 June.**
		1. The chair of 802.15.3d will be working on the updated text for review in 802.18 and current plan is to share with 802.15 in Atlanta wireless interim and approve it there, for the SC (aka EC) quick ballot and submission to ITU-R.
	2. **Ofcom comments failed due to lack of response. A member is checking with Ofcom if still worthwhile to try again.**
		1. Ofcom understands our process we should file and try again through the LMSC (aka EC)
	3. **MIT request for waiver of WiTrack UWB 6-8.5 GHz, replay comments 03 May**
		1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-89&sort=date_disseminated,DESC>
		2. Section 15.503(d) of the Commission’s rules defines an ultra-wideband transmitter as an intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.2 MIT states that its WiTrack System would not satisfy this definition because each frequency step is less than 500 MHz in bandwidth “at any point in time” even though the total bandwidth needed for optimal performance exceeds 500 MHz.
8. Chair presents slide 13, Actions required
	1. **ACMA 5 Year outlook comment ready text, only 1 week to finish.**
	2. **5GAA ex parte comment ready text, waiver could be out anytime, or shape the NPRM. Target 16 May to vote on comments.**
	3. **Ofcom comments, keep it going.**
9. Chair presents slide 14 Any Other Business
	1. None heard.
10. Chair presents slide 15, Adjourn
	1. Next teleconference: 02 May 2019 – 15:00 – <15:55 ET
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-12-0000-teleconference-call-in-info.pptx> (or latest) ***(new for 02may and on)***
		2. All changes/cancellations will be sent out to the 802.18 list server.
	2. Adjourn:
		1. Agenda complete, any objection to Adjourn.
		2. None heard, Adjourn at 15:49 ET.
	3. The next face to face meeting of the 802.18 RR-TAG will be at the IEEE 802, 14 – 16 Wireless Interim in Atlanta, GA, USA at the Grand Hyatt in Buckhead
		1. Time slots, Tuesday AM2 and Thursday AM1