IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 09 May 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

Minutes of the IEEE 802 RR-TAG Teleconference.

These are the Minutes of the IEEE 802 RR-TAG Teleconference, Thursday, 09 May 2019

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **07mar** | **21mar** | **28mar** | **04apr** | **11apr** | **18apr** | **25apr** | **02may** | **09may** |
| Auluck | Vijay | Self Employed | **x** | **x** | **x** |  | **x** | **x** |  | **x** | **x** |
| Ecclesine | Peter | Cisco Systems, Inc. | **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** | **x** |
| Lepp | James | BlackBerry | **x** |  |  |  |  |  |  |  |  |
| Lynch | Mike | MJLynch Assoc |  |  | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Nejatian | Alireza | Ericsson | **-** |  |  | **x** |  |  |  |  |  |
| Nikolich(lmsc) | Paul | Self and others |  |  |  |  |  |  |  |  | **x** |
| Salazar  | Ruben | Landis Gyr Group WW |  |  | **x** |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE |  |  |  |  |  |  |  |  | **x** |
| Verso | Billy | DecaWave |  |  |  |  |  |  |  | **x** |  |
| Yaghoobi | Hassan | Intel Corporation |  |  | **x** | **x** |  | **x** | **x** |  | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **07mar** | **21mar** | **28mar** | **04apr** | **11apr** | **18apr** | **25apr** | **02may** | **09may** |
| 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** |  |  |  |  |  |  |
| Nejatian | Alireza | Ericsson |  | **-** | **-** |  |  |  |  |  |  |
| Rajkotia | Purva | IEEE Staff |  |  |  |  |  |  |  |  |  |
| Rison | Mark | Samsung |  |  |  |  |  |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc.& UWB Alliance |  |  |  |  |  |  |  | **x** | **x** |

Chair calls the meeting to order at 15:03 ET.

1. Chair presents slides 2, 3, and 4 of 802.18-19/0059r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 5, of 802.18-19/0056r01, the agenda:
	1. Call to Order
	2. Administrative items
		1. Need a recording secretary, Ben Rolf, thanks!
	3. Approve agenda & last minutes
	4. Discussion items
		1. EU Items
		2. ACMA comment change requested
		3. 5GAA request FCC to look forward
		4. General Discussion Items
	5. Actions required
		1. 5GAA comments
		2. 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

Moved by: Peter Ecclesine (Cisco Systems)

Seconded by: Vijay Auluck (Self)

Discussion? None

Vote: Unanimous consent

* 1. **Motion**: To approve the minutes from the IEEE 802.18 teleconference 02 May 2019in document: <https://mentor.ieee.org/802.18/dcn/19/18-19-0057-00-0000-minutes-02may19-rrtag-teleconference.docx> Posted: 05-May-2019 22:32:02 ET

Moved by: Vijay Auluck (Self)

Seconded by: Jay Holcomb (Itron)

Discussion? None

Vote: 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. 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. Finland asked for a delay on the delegated act (V2X) in taking effect in 60 days, tbd.
			1. It takes 16 countries & 65% of population to stop the act from going into effect.
			2. It is a mandatory act, and would be requied in 28 countries.
	2. **ETSI - ERM -** [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) next meeting #55, 27-28 June, Sophia Antipolis
		1. EN 300 328 SRDoc underway
	3. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) next meeting #8, \_\_\_\_\_\_\_\_\_
		1. ECC report 302 is in publication process. All was resolved.
	4. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) next meeting #7, 16-17 May, Copenhagen
		1. There was a decline for more studies, however this may come again in #8.
		2. Working on Report A, to get to the EC. Just a couple of WIs being worked on.
2. Chair presents slide 9, ACMA 5 year Outlook
	1. <https://www.acma.gov.au/theACMA/draft-five-year-spectrum-outlook-2019-23>
	2. Comments due 16 May 2019 and are in LMSC (EC) ballot.
		1. Did have one update after the RR-TAG approval, see rev03, what went to the LMSC.
			1. ACMA just put out a new consultation on 3.4GHz and a good place to add to a point we already had on harmonization with other regulatory bodies.
			2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0058-03-0000-acma-5yr-spectrum-outlook-2019-23-ieee-802-comments.docx>
	3. **Wednesday, a requested update from LMSC member in this LMSC ballot**
	4. **List item 7, the statement in the second bullet is vague and should be deleted.**

*“In regard to the longer-term view, IEEE 802 believes that creating and maintaining a dynamic database of all RF spectrum use will enable the maximum utilization of this finite resource. It can monitor and manage interference to licensed users and critical national defense spectrum, while opening a large amount of spectrum for opportunistic use, such as for disaster recovery and bringing broadband to unserved or underserved segments of the population.”*

* + 1. Who is creating the DB? ACMA?
		2. “all RF spectrum use” Is the DB local to Australia? Global?
		3. “maximum utilization” – isn’t effective utilization enough? Cost of maximum utilization likely prohibitive.
		4. “monitor and manage interference” This sounds like an over-reaching continuously monitoring system that has not yet been instantiated.
		The very limited UK experiment (24 sites, see [https://www.ofcom.org.uk/research-and-data/technology/radio-spectrum/spectrum-use/ams](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.ofcom.org.uk_research-2Dand-2Ddata_technology_radio-2Dspectrum_spectrum-2Duse_ams&d=DwMGaQ&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=djtxQNbVy6kJXtp-lzEvR-qg3CNW6B6KfZ3eu5y98oc&s=WvS7xN2Sr0Hci-ORCZ3MWgMZPTv8jV7mlDd3-8MiQuM&e=)) is unlikely to be expanded. Not all frequencies have the same value and warrant continuous monitoring.
		5. What is the “finite resource”? All RF spectrum – to terahetz -is finite?
		6. Transmissions from low power devices (e.g. nearly all WLANs) do not need to be tracked and monitored by a central system
	1. After some quick discussion, we re-approve comments w/o the paragraph in question and will re-start the LMSC ballot with an early close.
	2. **Motion:** Move to approve the comments in <https://mentor.ieee.org/802.18/dcn/19/18-19-0058-05-0000-acma-5yr-spectrum-outlook-2019-23-ieee-802-comments.docx> response to ACMA’s Five-year spectrum outlook 2019-23 consultation. With the chair of 802.18 to have editorial privileges and send to the LMSC(EC) for review/approval and submission to the ACMA on or before 15 May2019.

Moved by: Stuart Kerry (Ruckus)

Seconded by: Mike Lynch (MJLynch Assoc.)

Discussion? none

Vote: \_8\_Y / \_0\_N / \_0\_A

VijayA, DorothyS, PaulN, HassanY, MikeL, PeterE, StuartK, jayh

Motion - \_Passed\_

\_\_10\_\_ on the call

1. Chair presented slides 11&12 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. **With our goal to vote on comments by 16 May, Thursday in Atlanta.**
	8. Info/request for input was sent to 802.11 and 802.11bd chairs and they have passed on.
	9. **At this point the chair has not received any contributions.**
	10. It was brought up a contribution is being worked on and we should see it next week at the interim.
2. Chair presents slide 13, 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. Status: we can hold till June and work on communications during July plenary.
	2. Wi-Fi usage at final-4, beat records of like peak concurrent users of 31,141 and 31 terabytes of data over the weekend.
		1. From : <https://www.mobilesportsreport.com/>
	3. Anything of note to discuss next week at the Wireless Interim? nothing heard
3. Chair presents slide 14, Actions required
	1. **ACMA comments, chair to restart LMSC ballot.**
	2. **5GAA ex parte comment ready text, waiver could be out anytime, and/or help shape the NPRM. Target 16 May to vote on comments.**
	3. **Add reference of Wi-Fi info on previous slide.**
4. Chair presents slide 15 Any Other Business
	1. Note: registration is out for July 2019 Plenary in Vienna, Austria.
	2. Nothing else brought up.
5. Chair presents slide 16, Adjourn
	1. Next teleconference: 30 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.
		3. Note: no teleconference 23 May.
	2. Adjourn:
		1. Agenda complete, any objection to Adjourn.
		2. None heard, Adjourn at 15:46 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