IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 21 March 19 |
| Name | Affiliation | Address | Phone | Email |
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| Author(s):  |
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|  |
| 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, 21 March 19

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **31Jan** | **06Feb** | **07Feb** | **13Feb** | **14Feb** | **21Feb** | **28Feb** | **07Mar** | **21Mar** |
| Auluck | Vijay | Self Employed |  |  |  | **X** | **X** |  |  | **X** | **X** |
| Ecclesine | Peter | Cisco Systems, Inc. | **X** |  | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| Holcomb | Jay | Itron Inc. | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| Kain | Carl | Noblis Inc. | **X** |  | **X** |  |  |  |  |  |  |
| Kennedy | Richard | Self | **X** |  |  |  |  |  |  |  |  |
| Kerry | Stuart | ARRIS/Ruckus |  |  | **X** | **X** | **X** | **X** |  | **X** |  |
| Lepp | James | BlackBerry | **X** |  | **X** |  | **X** | **X** | **X** | **X** |  |
| Lynch | Mike | MJLynch Assoc | **X** |  | **X** |  |  | **X** | **X** |  |  |
| Yaghoobi | Hassan | Intel Corporation | **X** |  | **X** |  |  | **X** |  |  |  |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **31Jan** | **06Feb** | **07Feb** | **13Feb** | **14Feb** | **21Feb** | **28Feb** | **07Mar** | **21Mar** |
| Fischer | Michael | NXP Semiconductors | **X** | **X** | **X** | **X** | **X** |  |  |  |  |
| Hamilton | Mark | Ruuckus |  |  |  |  |  |  |  |  | **X** |
| Kenney | John | Toyota ITC | **X** |  |  | **X** | **X** | **X** | **X** |  | **X** |
| Levy | Joeseph | Interdigital |  |  |  |  | **X** | **X** | **X** |  |  |
| Nejatian | Alireza | Ericsson | **X** |  | **X** |  |  | **X** | **X** |  |  |
| Rajkotia | Purva | IEEE Staff | **X** |  |  |  |  |  |  |  |  |
| Rison | Mark | Samsung |  |  |  |  | **X** |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. and UWB Alliance | **X** |  | **X** |  |  |  |  |  |  |

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

1. Chair presents slides 2, 3, and 4 of 802.18-19/0040r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 5, of 802.18-19/0040r01, the agenda:
	1. Call to Order
	2. Administrative items
		1. Need a recording secretary, Peter Ecclesine (Thank You)
	3. Approve agenda & last minutes
	4. Discussion items
		1. EU Items
		2. Ofcom Consultation on enabling opportunities for innovation,
		3. NPRM Expanding Broadband to the 896 / 935 MHz PLMR Band
		4. General Discussion Items
	5. Actions required
		1. Ofcom Consultation
		2. FCC NPRM at 895/935
		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: Peter Ecclesine (Cisco)
		2. Seconded by: Vijay Auluck (Self)
		3. Discussion? None
		4. Vote: Unanimous consent
	2. **Motion: To approve the minutes from the IEEE 802.18 teleconference 07 March 2019 in document:** [**https://mentor.ieee.org/802.18/dcn/19/18-19-0030-00-0000-minutes-07mar19-rrtag-teleconference.docx**](https://mentor.ieee.org/802.18/dcn/19/18-19-0030-00-0000-minutes-07mar19-rrtag-teleconference.docx) **Posted: 09-Mar-2019 18:14:34 ET**
		1. Moved by: Peter Ecclesine (Cisco)
		2. Seconded by: Jay Holcomb (Itron)
		3. Discussion? None
		4. Vote: Unanimous consent
	3. The Chair noted an 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. ETSI - ERM - [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) next meeting #55, 27-28 June, Sophia Antipolis
		1. There is a new WI coming up, an SR Doc for the 2.4 GHz band for a new Harmonized Standard.
		2. Need to watch this oneETSI – ERM - [<TG-UWB>](https://portal.etsi.org/tb.aspx?tbid=729&SubTB=729) next meeting #49, 08-09 May, Leinfelden DE
	2. CEPT – ECC [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) next meeting #7, 24-25 Apr, Copenhagen
		1. Public consultation ECC Report 302 is in process, its due date confirmed to be 01 April
5. Chair presents slide 9, **Ofcom\_Enabling-opportunities-for-innovation\_2.4 GHz**
	1. <https://www.ofcom.org.uk/consultations-and-statements/category-1/enabling-opportunities-for-innovation>
		* 1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0034-00-0000-ofcom-enabling-opportunities-for-innovation-2-4ghz.pdf>
		1. Response due by March 12th, completed using [consultation responses form (RTF, 1.5 MB)](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.ofcom.org.uk_-5F-5Fdata_assets_rtf-5Ffile_0026_130688_enabling-2Dinnovation-2Dconsultation-2Dform.rtf&d=DwMDaQ&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=3FBZmV-USi1IAJCcWLc_TKEa1D1P2ap2wmW9rVIDII0&s=Xr3ivvSquLAhW7zYeHsx70dkYfyIx3oz9mAK7LT-jww&e=).
			1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0035-00-0000-ofcom-enabling-opportunities-consultation-form-2-4ghz.rtf>
		2. The 2390-2400 MHz discussion starts around page 35
			1. Handsets 23 dBm, base stations to 42 dBm, some other IOT considerations
		3. Annex 6. Interference risk assessment in 2300 MHz shared spectrum, page 103.
		4. **Question 19:** (Section 8)Do you have any other comments on our proposal?

1) We are in an adjacent channel and we question analysis in Annex 6.

2) e.g. need to consider .11ax is coming

3) The receive performance that Ofcom pushed for is going to be a problem.

4) Should speak to Zigbee and 802.15.4g ….

5) BT is there also.

6) Need to consider economic value of bottom of 2.4 GHz band / channel 1.

7) Added this week, why tie this 10 MHz to this opportunity?

* + 1. Chair had some text to start discussions with, went through it, some good inputs/edits from those on the call.
			1. It will be uploaded to Mentor in the next few days, for all to review and feedback inputs.
		2. Take away on timing: let’s get some points together and filing sooner is better than depth on the points.
1. Chair presents slide 10, **FCC NPRM Expanding Broadband to the 896/935 MHz pair**
	1. [Notice of Proposed Rulemaking](https://www.fcc.gov/document/expanding-broadband-900-mhz-band) that proposes to reconfigure the 900 MHz band to create a broadband segment to facilitate technologies and services for a wide variety of businesses, including critical infrastructure, as well as seek comment on various transition mechanisms to achieve this goal. (WT Docket No. 17-200)
	2. **Final:** [**https://mentor.ieee.org/802.18/dcn/19/18-19-0038-00-0000-final-nprm-17-200-expanding-broadband-to-896-935-mhz.pdf**](https://mentor.ieee.org/802.18/dcn/19/18-19-0038-00-0000-final-nprm-17-200-expanding-broadband-to-896-935-mhz.pdf) [<18-19-0028r01 is the highlighted version)>](https://mentor.ieee.org/802.18/dcn/19/18-19-0028-01-0000-draft-nprm-17-200-expanding-broadband-to-896-935-mhz.docx)
	3. The proceeding: <https://www.fcc.gov/ecfs/search/filings?proceedings_name=17-200&sort=date_disseminated,DESC>
	4. This is for the 896-901/935-940MHz land mobile licenses band today.
		1. Some want the FCC to reorganize spectrum so they can have 3 MHz paired for private LTE, moving existing LMR users elsewhere.
	5. 802.11 and 802.15 both have standards in between this pair, as well as all the road tolling is also in between.
	6. We will look further and maybe do comments and review in upcoming teleconferences. No deadlines are set just yet.
	7. Today: Would we need to focus on the ‘use’ of the band in recent years, since the rules have been higher power in this band all along.
	8. To-do: 1. Look at the other filings 2. Compare power levels from today’s rules.
2. Chair present slides 11 - 12General Discussion Items.
	* 1. **Amendment for Japan’s Regulations for Radio Equipment**
			1. Japan needs to improve efficiency of Wireless LAN (WLAN) connections, considering the current increased traffic of the mobile communications in Japan. To meet these demands, Japan will arrange the technical regulations of the WLAN System for the expansion of use the WLAN system with IEEE 802.11ax support.
			2. See: <https://mentor.ieee.org/802.18/dcn/19/18-19-0042-00-0000-japan-s-outline-of-proposed-amendment-to-ministerial-ordinance.pdf>
		2. **FCC NPRM 18-295, 6 GHz**
			1. Comments in: <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-295&sort=date_disseminated,DESC>
			2. Anything to share this week: Looks like AFC is on the way.
		3. **E911 location accuracy**
			1. <https://docs.fcc.gov/public/attachments/FCC-19-20A1.pdf>
			2. Mobile service part 20, for accuracy in height, +/- 3 meters
		4. **TVWS location accuracy**
			1. <https://docs.fcc.gov/public/attachments/FCC-19-24A1.pdf>
			2. Dropping down to more accurate reporting.
		5. **Key is the trend is for more accuracy where ever.**
3. Chair presents slide 13, Actions required
	1. **Review and feedback inputs on Ofcom Consultation comments.**
	2. **Continue to review FCC NPRM for possible IEEE 802 comments and look at what is in the 17-200 filing and on the record and compare power in the rules today and proposed.**
4. Chair presents slide 14 Any Other Business
	1. None heard
5. Chair presents slide 15, Adjourn
	1. Next teleconference: 28 March 2019 – 15:00 – <15:55 ET
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-11-0000-teleconference-call-in-info.pptx> (or latest)
		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 15:53 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