IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 28 May 20 |
| Name | Affiliation | Address | Phone | Email |
|  |  |  |  |  |
| 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, 28 May 20

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **28may** | **21may** | **14may** | **07may** | **30apr** | **23apr** | **16apr** | **09apr** | **08apr** |
| Auluck | Vijay | Self Employed |  | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |
| Berens | Friedbert | FBConsulting Sarl |  |  |  |  |  |  |  |  | **x** |
| Boldy | David | Broadcom | **x** |  |  |  |  | **x** |  | **x** |  |
| de Vegt | Rolf | Qualcomm Incorporated |  |  |  | **x** |  |  |  |  |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **x** | **x** | **x** |  | **x** | **x** | **x** |  |  |
| Fang | Yonggang | ZTE TX Inc | **x** |  | **x** | **x** | **x** | **x** | **x** | **x** |  |
| Harrington | Tim | Pro ID & UWB Alliance | **x** | **x** | **x** |  | **x** | **x** | **x** | **early** |  |
| Holcomb | Jay | Itron Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Jeffries | Tim | FutureWei | **x** |  | **x** | **x** |  | **x** | **x** |  |  |
| Jones | Vincent Knowles IV | Qualcomm Incorporated |  |  |  | **x** |  |  |  |  |  |
| Kain | Carl | Noblis, Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Kenney | John | Toyota ITC | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Kerry | Stuart | Ruckus/CommScope | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Lepp | James | BlackBerry |  |  |  |  | **x** |  |  | **x** |  |
| Lynch | Mike | MJLynch Assoc |  | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |
| Nikolich(lmsc) | Paul | Self and others | x |  | x | x | x |  | x | x |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. | **x** | **x** | **x** |  |  |  |  |  |  |
| Sarris | Ioannis | u-blox |  |  |  |  |  |  |  | **x** |  |
| Stanley (lmsc) | Dorothy | HPE | **x** | **x** | **x** | **x** |  |  | **x** | **x** |  |
| Yaghoobi | Hassan | Intel Corporation | **x** | **x** | **x** | **x** | **x** | **x** |  |  |  |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **28may** | **21may** | **14may** | **07may** | **30apr** | **23apr** | **16apr** | **09apr** | **08apr** |
| Andersdotter | Amelia | Self |  | **x** | **x** | **x** |  |  |  |  | **x** |
| Au | Edward | Huawei |  | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |
| D’Ambrosia(lmsc) | John | FutureWei |  | **x** | **x** |  |  |  |  |  |  |
| Levy | Joseph | Interdigital |  |  | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Rosdahl(lmsc) | Jon | Qualcomm |  | **x** |  |  |  |  |  |  |  |
| Roy | Dick | Self |  |  |  |  |  |  |  | **x** |  |
| Schiessl | Sebastian | u-blox | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Ward | Lisa | Rohde&Schwarz |  | **x** |  | **x** | **x** | **x** |  | **x** |  |
| Yucek | Tevfik | Qualcomm | **x** | **x** |  |  |  |  |  |  |  |

Chair calls the meeting to order at 15:02 ET.

1. Chair presents slides 2 – 6 of 802.18-20/0087r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0087r01, the agenda:
	1. Call to Order
	2. Administrative items
		1. Someone to take some notes:
	3. Approve agenda & last minutes
	4. Discussion items
		1. EU Items
		2. ITU-R Items
		3. ACMA 5-year spectrum outlook
		4. FCC FNPRM on 6 GHz
		5. FCC R&O 896/935 band
		6. General Discussion Items
	5. Actions required
		1. ACMA FYSO contribution text for comments
		2. FCC FNPRM on 6 GHz, anything for IEEE 802
		3. Anything new today
	6. AOB and Adjourn
3. Chair presents slide 8, Administrative – Motions and more
	1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Stuart Kerry (Ruckus/CommScope)

Seconded by: Hassan Yaghoobi (Intel)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 21 May 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0084-00-0000-minutes-21may20-rrtag-teleconference.docx> 23-May-2020 14:16:28 ET, with editorial privilege for the 802.18 chair.

Moved by: Stuart Kerry (Ruckus/CommScope)

Seconded by: Ben Rolfe (Blindcreek Assoc.)

Discussion? None

Vote: Approved by unanimous consent

* 1. For July 2020 plenary week, current plan is our normal RR\_TAG weekly meeting on Thursday.
		1. Is there anything else we should consider that week? Nothing brought up.
	2. Someone brings up voting rights in July, EC is now setting aside some rules.
		1. Just this morning (28may20) the LMSC approved they can change rules now w/o a f2f. (Before rules could only be changed in a f2f plenary.)
		2. This opens the door for the LMSC to review the voting membership rules that today require a f2f plenary for the RR-TAG. (It was brought up in an EC call earlier, though PAR approvals have had the priority)
		3. The 802 Chair gives a personal view that chairs have discretion to give membership. Once granted, it takes a very long time to have the membership age out.
		4. TAGs have different participation rules than WGs and only has lack of f2f plenary attendance to age out non-participating voters.
		5. the 802.18 Chair will start EC dialog by email.
1. Chair presents slides 9-10, **EU items to share**
	1. **ETSI - ERM -** [**<TG-11>**](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **next call: 04June**
		1. Interesting doc: ERMTG11(20)000033r1 Background of the MU concept. (It is in the .11 members area)
		2. Medium Utilization - MU – Today it is devices can use 10mW, with 10% duty cycle over 100mS. There is an effort to update, as it is time to bring up to date.
		3. Today there are so many different products with so many different functions., compared to years ago.
	2. **CEPT – ECC** [**<WGFM>**](https://cept.org/ecc/groups/ecc/wg-fm/client/introduction/) **next meeting #96, 08-12June20; Web-meeting**
		1. Standing by and preparing for June meeting, e.g. Report B.
2. Chair presents slide1 11, **ITU-R items to share**
	1. nothing to share today
3. Chair present slides 12 and 13, **ACMA 5-year spectrum Outlook**
	1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0079-00-0000-acma-5year-spectrum-outlook-fys-2020-24.docx>
	2. The closing date for submissions is COB, Wednesday 24 June 2020.
		1. **Need to have .18 approval by Thursday 11 June 2020**.
	3. The ACMA invites comments on the draft FYSO 2020-–24 and on the following specific questions:
		1. What are the expected impacts of the COVID-19 pandemic on the short- and medium-term capacity of your industry?
		2. Do you have any feedback on the ACMA’s approach to its spectrum work program in the current environment? Do you have alternative proposals or priorities?
		3. Are there other technology developments or sources of spectrum demand that the ACMA should be aware of in considering spectrum management over the next five years?
		4. Do you have any other feedback on the ACMA’s plans for monitoring, initial investigation, preliminary replanning or replanning of bands?
		5. Do you have any comments about the ACMA’s approach to forward allocations?
		6. Could look at Sharing, LIPDs (6 GHz), WRC-19 1.16 and 1.2. See APAC update 18-20/0082r01 for great review of these points to consider.

* + 1. No contributions to date and no feedback in the call.
1. Chair presents slides 14 and 15, **FCC R&O and FNPRM 6GHz**
	1. CHAIRMAN PAI PROPOSES NEW RULES FOR THE 6 GHz BAND, UNLEASHING 1,200 MEGAHERTZ FOR UNLICENSED USE News Release: [Docx](https://urldefense.proofpoint.com/v2/url?u=https-3A__docs.fcc.gov_public_attachments_DOC-2D363451A1.docx&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=qkYmo1P6XmH1YvH1UkP-tyoCfcURwF2UYPYmrj-ahdc&s=C2AkcvEPrUX932nUH8F7u7RFWhncPxXDubaY_WcjOgY&e=)
		1. The Report and Order authorizes two different types of unlicensed operations: standard-power in 850-megahertz of the band and indoor low-power operations over the full 1,200-megahertz available in the 6 GHz band. An automated frequency coordination system would prevent standard power access points from operating where they could cause interference to incumbent services.
		2. Preceding:
			1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-295&sort=date_disseminated,DESC>
		3. R&O is effective 27July20,
			1. <https://www.federalregister.gov/documents/2020/05/26/2020-11236/unlicensed-use-of-the-6-ghz-band?utm_campaign=subscription+mailing+list&utm_source=federalregister.gov&utm_medium=email>
	2. FNPRM as approved on 24 Apr 20 is on Mentor: **With erratum now, 21May20:** <https://mentor.ieee.org/802.18/dcn/20/18-20-0062-02-0000-fcc-r-o-fnprm-promoting-unlicensed-use-of-the-6ghz-band-et-18-295.docx> 31 Seek Comments
		1. In Federal Register today (28th): <https://www.federalregister.gov/documents/2020/05/28/2020-11320/unlicensed-use-of-the-6-ghz-band?utm_campaign=subscription+mailing+list&utm_source=federalregister.gov&utm_medium=email>
		2. Comments due: 29June20; **Comments from 802.18 by 11June20-in 2 weeks.**
		3. Reply Comments due: 27July20.
		4. Anything for IEEE 802 as a whole to consider? \_\_\_\_\_\_\_\_\_
	3. No comment ready text contributions to date.
		* 1. Contention-based protocol maybe? Share with existing broadcast equipment and other unlicensed services. Can this be used for better coexistence?
	4. One member sees there are 4 main areas in the FNPRM:
		1. VLP, PSD LPI, Standard power mobile AFC, higher power point to point.
	5. .18 Chair to send note to LMSC looking for inputs on this NPRM.
2. Chair presents slide 16, **FCC R&O 896-901/935-940MHz**
	1. To realign the 900 MHz band to make available six of the band’s ten megahertz for the deployment of broadband services and technologies to meet the ever-increasing spectrum capacity demands of a wide range of industries, including utilities and railroads, and other private land mobile radio services.
	2. Proceeding 17-200: [**https://www.fcc.gov/ecfs/search/filings?proceedings\_name=17-200&sort=date\_disseminated,DESC**](https://www.fcc.gov/ecfs/search/filings?proceedings_name=17-200&sort=date_disseminated,DESC)
	3. R&O on mentor: <https://mentor.ieee.org/802.18/dcn/20/18-20-0085-00-0000-fcc-r-o-896-901-935-940-mhz-band-wtb-17-200-fcc-20-67a1.docx>
	4. 802.18 reviewed this when the NPRM came out looking at current users in this adjacent to the unlicensed band, and no one had concerns or inputs. IEEE 802 did not file comments.
	5. **From NPRM 802.18 discussions last year: Compare power levels from today’s rules.**
	6. NPRM: We propose to permit an effective radiated power for base and repeater stations in the broadband segment not to exceed 400 watts/megahertz in non-rural areas and 800 watts/megahertz in rural areas, with the maximum permissible power decreasing as the HAAT rises above 304 meters.
		1. R&O ¶ 145 accepted the NPRM levels; with justification could do a little more.
	7. Found in today’s rules: §90.635   Limitations on power and antenna height.
	8. The effective radiated power and antenna height for base stations may not exceed 1 kilowatt (30 dBw) and 304 m. (1,000 ft.) above average terrain (AAT), respectively, or the equivalent thereof as determined from the Table.
		1. OOBE should be looked out further to understand if different from before and in general.
		2. This is FYI for all, .18 will not pursue any further.
3. Chair presents slide 17, General discussion items
	1. **Brazil released Resolution No. 726.**
		1. Amends the Regulation on Restricted Radiation Radiocommunication Equipment.
		2. Anatel: <https://sei.anatel.gov.br/sei/publicacoes/controlador_publicacoes.php?acao=publicacao_visualizar&id_documento=6244765&id_orgao_publicacao=0>
		3. Mentor with resolution 680: <https://mentor.ieee.org/802.18/dcn/20/18-20-0086-00-0000-sei-anatel-5511563-resolution-726-and-680.docx>
		4. Resolution 726 will update the current Radio Frequency bands with usage restrictions. Some frequency bands that will be open are: 5.850 – 5.925 GHz (802.11p), 57-71 GHz (802.11ad) and 76-81 GHz (radar systems), providing they meet the technical compliance requirements within the Regulation.
		5. Art. 4 This Resolution comes into force on September 1, 2020 and should see more technical details before then.
	2. Also the resolution erased usage restrictions on 6,650-6,675.2 <- radio astronomy band, thus leaving 5460-8405 MHz free for other activity
	3. This is FYI for all, .18 will not pursue any further.
4. Chair presents slide 18, Actions required
	* **ACMA contribution text for comments from IEEE 802.**
	* **Review 6 GHz FNPRM, if anything for IEEE 802 as a whole to consider?**
	* **Chair ask EC about voting rights gaining and loss without f2f meetings (e.g. RR-TAG has not used letter ballots, could teleconference attendance be considered?)**
* **Start to consider what are IEEE 802 viewpoints are for WRC-23 agenda items.**
	1. Ongoing:
		1. WPT use of license-exempt bands and UWB in cell phones
		2. Digital Divide, how can we help?
1. Chair presents slide18 Any Other Business
	1. The 2 ITU-R WP5A submissions (M.1450/M/1801-802.18 approved before) have been requested to be on consent agenda for LMSC call next Tuesday, 02 June.
2. Chair presents slide 19, Adjourn
	1. **Next weekly teleconference (scheduled to 03sep): 04 June 20–*15:00–<15:55* ET**
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-15-0000-teleconference-call-in-info.pptx> (*or latest) (new – starting 14 May 20)*
			1. Or back up slide in this agenda.
		2. All late changes/cancellations will be sent out to the 802.18 list server.
		3. Now on the IEEE Webex teleconference calendar: <http://ieee802.org/802tele_calendar.html>
		4. And Overall schedule, works in progress: <http://ieee802.org/16/cal-temp.html>
	2. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:46et
	3. **The next face to face meeting is tbd. Note, Montreal in July is cancelled.**
	4. **Thank You**