IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 30 Jan 20 |
| Name | Affiliation | Address | Phone | Email |
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|  |
| 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, 30 Jan 20

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **30jan** | **23jan** | **09jan** | **02jan** | **26dec** | **19dec** | **12dec** | **05dec** | **21nov** |
| Auluck | Vijay | Self Employed |  |  | **x** | **x** |  |  | **x** | **x** | **x** |
| Boldy | David | Broadcom | **x** |  |  |  |  |  |  |  |  |
| De Vegt | Rolf | Qualcomm | **x**  |  |  |  |  |  |  |  |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **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** |
| Jefferies | Tim | FutureWei | **x** | **x** |  |  |  | **x** |  |  |  |
| Kain | Carl | Noblis, Inc. | **x** | **x** | **x** |  |  | **x** | **x** | **x** |  |
| Kenney | John | Toyota ITC | **x** | **x** | **x** |  |  | **x** | **x** | **x** |  |
| Kerry | Stuart | Ruckus/ | **x** | **x** |  |  |  |  |  |  |  |
| Lansford | Jim | Qualcomm |  |  |  |  |  |  | **x** |  |  |
| Lepp | James | BlackBerry |  | **x** | **x** |  |  | **x** | **x** |  | **x** |
| Lynch | Mike | MJLynch Assoc | **x** |  | **x** | **x** | **x** | **x** |  | **x** | **x** |
| Nikolich(lmsc) | Paul | Self and others |  |  |  |  |  |  |  |  |  |
| Palm  | Stephen | Broadcom | **x** | **x** |  |  |  |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. |  |  |  | **x** | **x** | **x** | **x** | **x** | **x** |
| Sarris | Ioannis | u-blox |  | **x** |  |  |  |  |  | **x** |  |
| Stanley (lmsc) | Dorothy | HPE | **x** | **x** |  | **x** |  | **x** | **x** |  |  |
| Yaghoobi | Hassan | Intel Corporation | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |  |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **30jan** | **23jan** | **09jan** | **02jan** | **26dec** | **19dec** | **12dec** | **05dec** | **21nov** |
| Aboul-Magd | Osama | Huawei |  |  |  |  |  |  |  |  | **early** |
| Au | Edward | Huawei | **x** |  |  | **x** | **x** |  | **x** |  | **x** |
| Hervieu | Lili | Cable TV Labs |  |  |  |  |  | **x** |  | **x** |  |
| Levy | Joseph | Interdigital | **x** | **x** | **x** | **x** |  | **x** |  | **x** | **x** |
| Lisa | Ward | Rohde&Schwarz |  |  | **x** |  |  |  |  |  |  |
| Perkins | Richard | Qorvo |  |  |  |  |  | **x** |  |  |  |
| Yucek | Tevfik | Qualcomm |  |  |  |  |  | **x** |  |  |  |
| User 4 |  |  |  | **x** |  |  |  |  |  |  |  |

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

1. Chair presents slides 2 – 6 of 802.18-20/0009r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0009r01, the agenda:
	1. Call to Order
	2. Administrative items
		1. Someone to take some notes: Peter Ecclesine (Cisco)
	3. Approve agenda & last minutes
	4. Discussion items
		1. EU Items
		2. ITU-R Items
		3. APAC Overview
		4. FCC 5.9 GHz FCC’s NPRM
		5. General Discussion Items
	5. Actions required
		1. FCC 5.9 GHz NPRM contributions
		2. Anything new today
		3. Later: WRC-xx Agenda Items, interest to IEEE 802
	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)

Seconded by: Hassan Yaghoobi (Inte)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 23 Jan 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0008-00-0000-minutes-23jan20-rrtag-teleconference.docx> 24-Jan-2020 09:38:17 ET

Moved by: Stuart Kerry (Ruckus)

Seconded by: Stephen Palm (Broadcom))

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?** nothing heard
1. Chair presents slides 9-10, EU items to share
	1. **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meetings #105, 23–27Mar20, Sophia-Antipolis**
		1. Meeting this morning on emission mask and rcvr characteristics. (e.g. selectivity)
		2. Working on compromise from the last meeting and revised today.
			1. See document 104a-002 and remember it is or will be in .11 portal member area also.
		3. 11Feb is the next GoTo meeting.
		4. LO leakage and 160MHz channel (.11ax & .11be should follow this)
	2. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next meeting #11, 15-16Apr20, Copenhagen, Denmark**
		1. Completed short term analysis, went to FM 57.
		2. A replacement for the RLAN (3 company) input for Report B is in process
		3. Point is, Ofcom has newer info (availability of target) to be considered. Ofcom info will replace temporary document 6.
		4. Second report will become an EC report and will go to public consultation.
	3. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next meeting #10, 12-14May20, Kristiansand, Norway**
		1. From last week’s meeting, worked on report 302 that was in public consultation, and being used on Report B.
		2. E.g. want to use power levels in [] and analysis into the public consultation.
		3. PSD radiated limits also involved. There are regulators discussing some of this and is positive for RLANs.
		4. Train control analysis used wrong prop. models. Off by up to 19dB, this is huge.
		5. So contentious issues going up to WGFM for their February meeting.
		6. Germany failed to provide EC decision text to FM57, so now timelines moving to right and considering EC meetings, will be about 4 months.
2. Chair presents slide 11, ITU-R items to share
	1. **ITU-R M.1450/M.1801 .11 ad hoc**
		1. First teleconference was on 28 Jan and reviewed draft outline, light attendance.
		2. Next call is on 11 Feb and will work on draft comments.
3. Chair presents slide12, APAC update
	1. **This slide deck provides a high-level overview of the activities in APAC (related to Wi-Fi and WPAN) between November 2019 and January 2020.**
	2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0011-00-0000-apac-update-january-2020.pptx>
	3. APT (Asia-Pacific Telecommunity)
		1. AWG-26 meets same week as IEEE 802 Atlanta
		2. 1st meeting of APT CPG for WRC-23 will be in July.
	4. ACMA (Australia)
	5. MSIT (Korea)
		1. Updated technical conditions in the 57-66 GHz band
4. Chair presents slide 13-19, FCC’s 5.9 GHz NPRM
	1. **The NPRM: <<= new OOBE was updated some from the draft.**
	2. Mentor: <https://mentor.ieee.org/802.18/dcn/19/18-19-0163-00-0000-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx>
	3. **Proceeding 19-138:**
	4. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-138&sort=date_disseminated,DESC>
	5. **Several have asked what is plan moving forward, for the comments; current plan:**
		1. At this time, will keep working draft as a .11bd document.
		2. **Request continues to be needing input from everyone, regardless of your WG, interest, technology, etc.**
			1. **(remember, comments will be from IEEE 802/IEEE 802.11 as a whole).**
		3. Updates will now be cc:’d to the .18 reflector / listserver
		4. Will continue to review/provide feedback on .18 calls. And .11bd is having calls also.
			1. Note: .18 can do 5-day notice ad hocs if needed.
		5. Trigger has been to move comments to .18, when NPRM is published in the Federal Register, or conditions/status indicates it makes sense to move to .18. (somewhat dynamic.)
			1. We need to be very careful, with 30-days once published, we will only have about 2 weeks to fully finalize.
			2. Then comments will finalize out of .18 and send to LMSC/EC ballot, and then to FCC.
		6. Some rumors are the publication maybe delayed, though not sure how accurate that is.
		7. As anything we may reset this plan if circumstances warrant, e.g. if we get into the March f2f and how to handle it then.
		8. Reviewed latest updates to the working draft comments (from 802.11bd)
			1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0104> Latest revision was r10, though r11 come out during the meeting.
		9. At the end of the call we quickly looked at marked up section 1.2 on interoperability and coexistence.
		10. There were several inputs that it needs to be worked on, not all were in agreement.
		11. Chair asked for folks with input to send in some contributions so this can be worked.
	6. See agenda later slides for details and some historical points already discussed.
5. Chair presents slide 20-23, General discussion items
	1. **Ofcom consultation on Improving spectrum access for Wi-Fi**
		1. <https://www.ofcom.org.uk/consultations-and-statements/category-2/improving-spectrum-access-for-wi-fi>
		2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0006-00-0000-ofcom-consultation-improving-spectrum-access-for-wi-fi.pdf>
		3. Comments due 20 March 2020. (would need .18 approval 05 March.)
		4. Based on our initial analysis and stakeholder engagement, we are proposing the following:
			1. To permit access to the 6 GHz (5925-6425 MHz) band on a licence-exempt basis with maximum EIRP levels of 250mW for indoor use and 25mW for outdoor use;
			2. And - To remove the DFS requirements from the 5.8 GHz (5725-5850 MHz) band for unlicensed indoor use only.
		5. **Question 1**: Do you have any comments on our proposal to open access to the 5925-6425 MHz band for licence-exempt Wi-Fi use?
			1. We would support and need to keep adjacent channesls in mind.
		6. **Question 2:** Do you have any comments on our technical analysis of coexistence in the 5925-6425 MHz band?
			1. (depends on contributions)
		7. **Question 3**: Do you agree with our proposal to remove DFS requirements for indoor Wi-Fi up to 200mW from the 5725-5850 MHz band?
			1. We would support. What would we say about 200mW?
		8. **Question 4:** Do you have any comments on other options that may be available for Wi-Fi and RLANs within the 5 GHz band?
			1. (depends on contributions)
		9. **Does IEEE 802 want to send in comments? Yes, continue to head that way**.
	2. **Ofcom consultation Supporting innovation in the 100-200 GHz range**
		1. <https://www.ofcom.org.uk/consultations-and-statements/category-2/supporting-innovation-100-200-ghz>
		2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0012-00-0000-ofcom-consultaion-supporting-innovation-in-100-200-ghz.pdf>
		3. Comments due 20 March 2020. (would need .18 approval 05 March.)
		4. **Question 1:** Do you have any comments on our analysis of the current use of spectrum bands in the frequency range 100-200 GHz, or the potential future use of these frequencies? Do you have any comments on current or future use of the specific bands 116-122 GHz, 174.8-182 GHz and 185-190 GHz?
		5. **Question 2**: Are there any further bands above 100 GHz which you think Ofcom should consider making available on a technology and service neutral basis? Which benefits might be realised from enabling access to further bands?
		6. **Question 3:** Do you have any comments on the approach we have used to assess the potential effect of our proposals on EESS? [Our full technical analysis is set out at annex 6.]
		7. **Question 4:** Do you have any comments on our proposals to authorise devices to operate on a licence-exempt basis in the 116-122 GHz, 174.8-182 GHz and 185-190 GHz bands?
		8. **Question 5:** Do you have any comments on our proposal to create a ‘Spectrum Access: EHF’ licence to authorise increased power use in the 116-122 GHz, 174.8-182 GHz and 185-190 GHz bands?
		9. **Does IEEE 802 want to send in comments?**
		10. **No one spoke up on the call. Chair will send to 802.15.3d TG chair to see if any interest. (done).**
	3. ACMA has recently issued a consultation asking for public opinions in adopting IEC TR 63170 into the ACMA Standard as an EME measurement method for devices operating between 6 GHz and 100 GHz.
		1. <https://www.acma.gov.au/consultations/2020-01/amendment-eme-arrangements-consultation-042020>
		2. IEC TR 63170:2018 – Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz.
		3. The closing date for submissions is COB, Thursday 12 March 2020.
		4. (would need .18 approval 27 Feb)
		5. **No feedback in teleconference, so will pass.**
		6. Another group in IEEE maybe looking at this.
	4. FYI - Japan MIC has started a consultation asking for public opinions in updating its rules for electronic signatures and certification services. In particular, one proposal is to remove SHA-1 from its Guidelines on Accreditation of Specific Certification Business and another is to increase the prime factor from 1024 to 2048 in its Enforcement Regulations on Electronic Signatures and Authentication Business.
		1. <https://www.soumu.go.jp/menu_news/s-news/01cyber01_02000001_00059.html>
		2. In Japanese and Comments due 26 Feb 2020 (would need .18 approval 13 Feb)
	5. FYI: FCC Establishing the Rural Digital Opportunity Fund
	The Commission will consider a [Report and Order](https://www.fcc.gov/document/establishing-204-billion-rural-digital-opportunity-fund) that would adopt a two-phase reverse auction framework for the Rural Digital Opportunity Fund, committing $20.4 billion in high-cost universal service support to bring high-speed broadband service to millions of unserved Americans. (WC Docket Nos. 19-126, 10-90)
		1. Great examples and long statements from the Commissioners.
6. Chair presents slide 24, Actions required
	* **Comment contributions for 5.9 GHz NPRM**
	* **Comment contributions for Ofcom consolation on WiFi.**
	* **Chair will check with 802.15.3 if any interest in the other Ofcom consultation on 100-200GHz.**
	1. Soon (after 5.9 GHz):
* **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 slide 25 Any Other Business
	1. **Have not seen formal announcement the new my Project is available, though did see a link on the IEEE SA page and can sign into myProject. Stay tuned.**
		1. <https://standards.ieee.org/>
		2. Under Standards, select eTools, then myProject
		3. Release Notes are dated 29 Jan.
	2. Ronald E. Williams who has been the Acting Chief is now Chief of OET’s Laboratory since Dr. Rashmi Doshi’s retirement.
	3. For the OET itself: Ronald Repasi is Acting Chief Engineer with Julius Knapp retirement.
	4. Any other business? Nothing else heard
2. Chair presents slide 26, Adjourn
	1. Next teleconference: 06feb2020 – 15:00 – <15:55 ET
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-14-0000-teleconference-call-in-info.pptx> (or latest)
		2. All late changes/cancellations will be sent out to the 802.18 listserver.
	2. Adjourn:
		1. Agenda complete, any objection to Adjourn.
		2. None heard, Adjourn at 15:59 ET.
	3. Next Plenary:
	4. The next face to face meeting (after next week) of the 802.18 RR-TAG will be at the IEEE 802, 15-20 March 2020 Plenary in Hilton Atlanta, Atlanta, GA, USA
	5. Normal time slots, Tuesday AM2 and Thursday AM1 (8:30 start)–remember no reciprocal from other WGs
	6. **Thank You**