IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 06 Feb 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, 06 Feb 20

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **06feb** | **30jan** | **23jan** | **09jan** | **02jan** | **26dec** | **19dec** | **12dec** | **05dec** |
| Auluck | Vijay | Self Employed |  |  |  | **x** | **x** |  |  | **x** | **x** |
| Boldy | David | Broadcom | **x** | **x** |  |  |  |  |  |  |  |
| De Vegt | Rolf | Qualcomm |  | **x**  |  |  |  |  |  |  |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **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** |
| Jefferies | Tim | FutureWei | **x** | **x** | **x** |  |  |  | **x** |  |  |
| Kain | Carl | Noblis, Inc. |  | **x** | **x** | **x** |  |  | **x** | **x** | **x** |
| Kenney | John | Toyota ITC | **x** | **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** |
| 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** |  |  |  |  |  | **x** |
| Schiessl | Sebastian | u-blox | **x** |  |  |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE | **x** | **x** | **x** |  | **x** |  | **x** | **x** |  |
| Yaghoobi | Hassan | Intel Corporation | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **06feb** | **30jan** | **23jan** | **09jan** | **02jan** | **26dec** | **19dec** | **12dec** | **05dec** |
| Aboul-Magd | Osama | Huawei |  |  |  |  |  |  |  |  |  |
| Au | Edward | Huawei | **x** | **x** |  |  | **x** | **x** |  | **x** |  |
| Hervieu | Lili | Cable TV Labs | **x** |  |  |  |  |  | **x** |  | **x** |
| Levy | Joseph | Interdigital | **x** | **x** | **x** | **x** | **x** |  | **x** |  | **x** |
| Lisa | Ward | Rohde&Schwarz | **x** |  |  | **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 802.18-20/0013r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0013r01, 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. Ofcom spectrum access for Wi-Fi consultation
		4. FCC 5.9 GHz FCC’s NPRM
		5. General Discussion Items
	5. Actions required
		1. FCC 5.9 GHz NPRM contributions
		2. Ofcom Wi-Fi consultation contributions
		3. Anything new today
		4. 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: Peter Ecclesine (Cisco Systems)

Seconded by: Dorothy Stanley (HPE)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 30 Jan 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0010-00-0000-minutes-30jan20-rrtag-teleconference.docx> 31-Jan-2020 13:47:20 ET

Moved by: Peter Ecclesine (Cisco Systems)

Seconded by: Dorothy Stanley (HPE)

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. Adaptivity making good progress
		2. There is a # of go-to meetings, trying to close out the 5 GHz standard, to finalize at the next f2f.
		3. There are also several go-to meetings in the next weeks, including 6 GHz, 80 MHz mask, puncture discussions, etc. (see BRAN site or .11 private area) for more details.

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| --- | --- | --- |
| TITLE | TYPE | DATES |
| BRAN-TR 103 721 | RG | 2020-02-18 16:00 - 2020-02-18 18:00 |
| BRAN-EN 301 893 - Preamble detection issues | RG | 2020-02-19 12:00 - 2020-02-19 15:00 |
| BRAN-EN 303 687 Drafting | RG | 2020-02-20 12:00 - 2020-02-20 15:00 |
| BRAN-Resolution meeting of EY comments for EN 302 567 | RM | 2020-02-24 11:00 - 2020-02-24 13:00 |
| BRAN-EN 301 893 - Spectrum mask > 80 MHz | RG | 2020-03-11 15:00 - 2020-03-11 17:00 |

* 1. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next meeting #10, 12-14May20, Kristiansand, Norway**
		1. Revised minutes are posted. Key is WGFM meeting next week working on input/needs from FM57
		2. [Results of the 9th FM57 meeting](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/news/results-of-the-9th-fm57-meeting/)The ninth meeting of FM57 took place on 22-24 January in Prague, Czech Republic. The main outcomes of the meeting are available [here](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/news/results-of-the-9th-fm57-meeting/).
		3. Still working the power levels in []s and analysis into the public consultation.
1. Chair presents slide 11, ITU-R items to share
	1. **Digital divide**: Kazakhstan has partnered with ITU and UNICEF to lead the global rollout of GIGA, a UNICEF-ITU initiative to connect every school to the Internet. Kazakhstan will lay the groundwork for new financing models, partners and digital tools to close the rural/urban digital divide in the country – and help identify best practices for worldwide implementation. [**Learn more**](https://www.itu.int/en/mediacentre/Pages/PR02-2020-Kazakhstan-leads-global-school-connectivity-in-Central-Asia.aspx)
2. Chair presents slides12-13, Ofcom consultation on Improving spectrum access for Wi-Fi
	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.)**
			1. 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.
	2. **.18 question: With 5.9 GHz NPRM out (next topic) what do we do with this consultation?**
		1. We only need 2-3-4 sentences on Q1 and Q3, unless we get contributions on Q2 &Q4?
		2. WiFi as co-primary, though asking technical details we should review. We may not want Ofcom to nail down a direction that could hinder us in the future?
		3. There is some question on what they mean by WiFi (moving forward). Maybe ask them to stay more open.
		4. We have 2 volunteers to draft some text for review.
	3. **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 adj. chans in mind.
	4. **Question 2:** Do you have any comments on our technical analysis of coexistence in the 5925-6425 MHz band?
		1. (depends on contributions)
	5. **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?
	6. **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)
3. Chair presents slide 14-22, FCC’s 5.9 GHz NPRM
	1. **The NPRM:**
	2. Mentor: <https://mentor.ieee.org/802.18/dcn/19/18-19-0163-01-0000-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx> **(🡺r01 from Fed. Reg. some updates.)**
	3. **Proceeding 19-138:**
	4. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-138&sort=date_disseminated,DESC>
	5. **Timeline, with the NPRM published - 06Feb.**
		1. 30 days has comments due Monday 09March.
		2. For 10-day LMSC ballot: absolute latest would be .18 approves 27Feb,
			1. However very risky, only a few hours of pad, and would have to depend on early close from EC to help mitigate the risk, etc.
		3. **Very short discussion…**
			1. **we will target to approve in .18 on Thursday 20 February.**
	6. The NPRM was published today;
	7. **Proposed Rule; Use of the 5.850-5.925 GHz Band;**
	8. **FR Document:** [**2020-02086**](https://www.federalregister.gov/documents/2020/02/06/2020-02086/use-of-the-5850-5925-ghz-band?utm_campaign=subscription+mailing+list&utm_source=federalregister.gov&utm_medium=email) **; Citation: 85 FR 6841**
	9. [PDF](https://www.govinfo.gov/content/pkg/FR-2020-02-06/pdf/2020-02086.pdf) **Pages 6841-6856 *(16 pages);*** [Permalink](https://www.federalregister.gov/documents/2020/02/06/2020-02086/use-of-the-5850-5925-ghz-band)
	10. Abstract: In this document, the Commission's proposal to amend its rules for the 5.850-5.925 GHz (5.9 GHz) band. The proposal would permit unlicensed devices to operate in the lower 45-megahertz portion of the band at 5.850-5.895 GHz under part 15 of the Commission's rules. It would also permit Intelligent Transportation System (ITS) operations in the upper 30-megahertz portion of the band at 5.895-5.925 GHz under parts 90 and 95 of the Commission's rules. ITS operations would consist of Cellular...
	11. Comments are due on or before March 9, 2020
		1. and reply comments are due on or before April 6, 2020.
	12. Per the plan, at this time we would move comments to .18.
	13. With that will discuss how to go through the comments
		1. Review/remind decision at Wireless Interim in SNA:
		2. Focus on what we can agree on, pass on what we don’t have agreement on.
		3. Maybe review what areas in the current draft we should focus on and get agreement, in case time runs short (prioritize the sections to focus on…) . An opinion from the chair.
	14. Need to compare the latest NPRM #ing scheme to the earlier one, looks like it has changed.
		1. The actual federal register (\*.docx) version has been uploaded to mentor (r01):
		2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0163-01-0000-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.>[docx](https://mentor.ieee.org/802.18/dcn/19/18-19-0163-01-0000-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx)
	15. With the published NPRM, here is the plan for the transition to .18:
	16. The author will take last inputs, and add with markup still on, to the .11bd draft comments.
	17. Also will compare to the Fed. Reg. published NPRM, e.g. #ing, and edit accordingly.
	18. This should become r13 Friday 07Feb.
		1. <https://mentor.ieee.org/802.11/dcn/>[20/11-20-0104](https://mentor.ieee.org/802.11/dcn/20/11-20-0104)
	19. The author will then upload this version to the .18 mentor documents for a r00, doc number will be coming.
	20. The .18 chair volunteered to make a ‘clean’ copy and do some formatting updating for a r01 and have up by early Monday 10Feb.
	21. Tracking will be on then for all of .18 updates.
	22. Judgement call will be made on comments to bring over, thought remember r00 has all the markups and comments from .11bd to refer to if needed.
	23. From there we need drop in comment text and edits from all, so we can more easily review, edit and get agreement by everyone.
	24. Do we set up some ad hoc calls over the next 3 weeks? Yes,
	25. A TAG can call a meeting/ad hoc w/5-day notice, so could have an ad hoc next Tuesday. Yes
	26. So we called ad hoc for next Tuesday, 11Feb, starting at 3pm-et, 2 hrs.
	27. What about over the next few weeks? Yes, we will call these out today:
		1. Friday 14th – 3pm–et-2hr
		2. Tuesday 18th – \ 3pm–et-2hr
		3. Wednesday 19th - 3pm–et-2hr
		4. Friday 21st - 3pm–et–2hr
		5. Tuesday 25th - 3pm–et-2hr
	28. Of course not all can make each one and/or the entire time, so just asking to do what you can.
	29. Any adjustment, cancellations, etc. watch the .18 list server.
	30. A comment was made could we vote at these, we have not in the past. E.g. on 25 Feb, if we don’t approve on the 20th. This is be researched.
	31. See agenda later slides for details and some historical points already discussed.
4. Chair presents slide 23, General discussion items
	1. **FI-Japan’s MIC milliwave radar/sensor systems in the 57-66 GHz band amendment is now in force, as of 30Jan.**
	2. Just a couple of the specs;
		1. Frequency 57-64 GHz 57-66 GHz
		2. Antenna power <= 10mW peak <=250mW peak or average
		3. OBW 7 GHz 9 GHz
		4. Antenna gain --- <= 10dBi
		5. e.i.r.p. <=13dBm <=40dBm
		6. Transmission time Duty 10%, in 33ms cycle -----
	3. **IEEE announcements**
		1. Did all see IEEE 802 emails about the Coronavirus and the LMSC is working through how it will affect the March plenary, with the well-being of participants a priority.
			1. The situation is being monitored closely and is working out possible cancellations, etc.
		2. **The new myProject is up and running,** [**<click here>**](https://development.standards.ieee.org/myproject-web/public/view.html)
		3. **July plenary in Montreal (YUL), 12-17 July**
			1. Given the popularity of Montreal, Quebec Canada as a summer tourism destination we highly recommend making your hotel reservation as soon as possible.
			2. Event Registration will be available following the March 2020 Plenary.
			3. HOTEL RESERVATIONS WEBSITE (Early Rate)
			[https://www.marriott.com/event-reservations/reservation-link.mi?id=1567107352786&key=GRP&app=resvlink](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.marriott.com_event-2Dreservations_reservation-2Dlink.mi-3Fid-3D1567107352786-26key-3DGRP-26app-3Dresvlink&d=DwMFaQ&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=5kPpa8scr88P5EmJqSZpwmvwVT3wgc1e5bXmRlWKJV8&s=0QESAxm-DglS4XC67ZRJp6JRfBmPTf59T3QdmbKtbhE&e=)
5. Chair presents slide 24, Actions required
	* **Comment contributions for 5.9 GHz NPRM**
	1. **Comment contributions for Ofcom consolation on WiFi; best by Wednesday morning to the chair to give a day to put into the required form, to review on Thursday.**
	2. 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. Any other business? Nothing else heard
2. Chair presents slide 26, Adjourn
	1. Next teleconference: 13feb2020 – 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. Next ad hoc on 5.9 GHz NPRM comments: Tuesday, 11Feb at 3pm-et
	3. Adjourn:
		1. Agenda complete, any objection to Adjourn.
		2. None heard, Adjourn at 15:54 ET.
	4. Next Plenary:
	5. 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
	6. Normal time slots, Tuesday AM2 and Thursday AM1 (8:30 start)–remember no reciprocal from other WGs
	7. (Book rooms for Montreal 12-17Jul Plenary)
	8. **Thank You**