IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 23 Apr 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, 23 Apr 20

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **23apr** | **16apr** | **09apr** | **08apr** | **07apr** | **06apr** | **03apr** | **02apr** | **31mar** |
| Auluck | Vijay | Self Employed | **x** | **x** | **x** |  | **x** | **x** | **x** | **x** | **x** |
| Berens | Friedbert | FBConsulting Sarl |  |  |  | **x** | **x** | **x** |  |  |  |
| Boldy | David | Broadcom | **x** |  | **x** |  |  |  |  | **x** |  |
| De Vegt | Rolf | Qualcomm |  |  |  |  |  |  |  |  |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **x** | **x** |  |  |  |  |  | **x** |  |
| Fang | Yonggang | ZTE TX Inc | **x** | **x** | **x** |  |  |  |  | **x** |  |
| Harrington | Tim | Pro ID & UWB Alliance | **x** | **x** | **early** |  |  |  |  | **x** |  |
| Holcomb | Jay | Itron Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Jeffries | Tim | FutureWei | **x** | **x** |  |  |  |  |  | **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** |
| Kerry | Stuart | Ruckus/CommScope | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Lansford | Jim | Qualcomm |  |  |  |  |  |  |  |  |  |
| Lepp | James | BlackBerry |  |  | **x** |  |  |  |  | **x** |  |
| Lynch | Mike | MJLynch Assoc | **x** | **x** | **x** |  |  |  |  | **x** |  |
| Nikolich(lmsc) | Paul | Self and others |  | x | x |  |  |  | x | x |  |
| Palm  | Stephen | Broadcom |  |  |  |  |  |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. |  |  |  |  |  |  |  |  |  |
| Sarris | Ioannis | u-blox |  |  | **x** |  |  |  |  |  |  |
| Shellhammer  | Steve | Qualcomm  |  |  |  |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE |  | **x** | **x** |  |  |  |  |  | **x** |
| Yaghoobi | Hassan | Intel Corporation | **x** |  |  |  |  |  |  | **x** |  |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **23apr** | **16apr** | **09apr** | **08apr** | **07apr** | **06apr** | **03apr** | **02apr** | **31mar** |
| Andersdotter | Amelia | Self |  |  |  | **x** | **x** | **x** | **x** |  |  |
| Au | Edward | Huawei | **x** | **x** | **x** |  |  |  |  |  |  |
| Goldbberg | Jonathan | IEEE |  |  |  |  |  |  |  |  |  |
| Haskou | Abdullah | Interdigital |  |  |  |  |  |  |  |  |  |
| Hervieu | Lili | Cable TV Labs |  |  |  |  |  |  |  |  |  |
| Levy | Joseph | Interdigital | **x** | **x** |  | **x** | **x** | **x** | **x** | **x** | **x** |
| Roy | Dick | Self |  |  | **x** |  | **x** | **x** | **x** | **x** | **x** |
| Schiessl | Sebastian | u-blox | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Lisa | Ward | Rohde&Schwarz | **x** |  | **x** |  |  |  |  | **x** |  |

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

1. Chair presents slides 2 – 6 of 802.18-20/0073r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0073r01, 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. FCC NPRM on 5.9GHz updated reply comments
		4. ITU-R M.1450/M.1801 submissions
		5. FCC R&O & FNPRM on 6GHz
		6. General Discussion Items
	5. Actions required
		1. Review FCC FNPRM and anything for IEEE 802
		2. ITU-R submissions inputs
		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 16 April 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0072-00-0000-minutes-16apr20-rrtag-teleconference.docx> 17-Apr-2020 08:48:30 ET

Moved by: Stuart Kerry (Ruckus/CommScope)

Seconded by: Peter Ecclesine (Cisco Systems)

Discussion? None

Vote: Approved by unanimous consent

* 1. **The July face to face plenary in Montreal, Quebec, Canada has been cancelled.**
		1. Question: With no f2f meetings how do voting rights, are gained and loss, happen?
			1. No discussions on the EC call Tuesday (21st), another call on 05May. Would like to see what other WGs/TAGs are considering.
		2. Will the hotel be cancelled automatically or not?
			1. Should be being worked, chair will pass along updates.
		3. November in Bangkok is on at this time, though looking to reduce # of attendees on the contract.
1. Chair presents slides 9-10-12, EU items to share
	1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287)next meeting #106, 22-26Jun20; online
		1. Calls are continually being setup over the next weeks, some are on top of FM-57 in May.
		2. TR 103 721 5.8 GHz Mitigation techniques, power levels, outdoor, etc. (28 April call) (Ofcom)
		3. EN 303 687 Channel Access Mechanism (05 May call)
		4. Still working preamble detect (11 May call)
		5. And general resolutions on the EN 301 893 standard (18 May call)
			1. Looking at country specific things in Annex's, this is new for standards.
	2. **ETSI - ERM -** [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) next calls, 29Apr, 14May
		1. 2.4 GHz SRDoc, getting attention now.
		2. Looking at it different, now from the point of view of the victims
	3. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) next meeting #11, 14-29Apr20, online only 🡸 last, this, next week.
		1. Today, head of 24 April meeting, put up views for an annex, with 5 declarations.
		2. This could take the whole meeting, yet the agenda is to do exec. summary. What to do?
		3. Lots of challenges in the calls, e.g. changing of positions by different countries.
2. **Chair presents slide1 11, ITU-R items to share**
	1. Nothing to share today
3. **Chair presents slide 12, FCC NPRM on 5.9 GHz reply comments**
	1. **FCC NPRM on 5.9 GHz reply comments**
		1. Mentor: <https://mentor.ieee.org/802.18/dcn/19/18-19-0163-02-0000-fcc19-138-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx> **(🡺r**01**/02 Fed. Reg. some updates.)**
		2. <https://www.federalregister.gov/documents/2020/02/06/2020-02086/use-of-the-5850-5925-ghz-band>
	2. Proceeding 19-138:
		1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-138&sort=date_disseminated,DESC>
	3. Reply comments now due next Monday, 27 April
	4. **Status of LMSC(EC) ballot: Started Early Close on the 10th to finish on 20th.**
		1. Received 8 (61%) responses, with 100% approval. (Just a few edits.)
		2. Received feedback reply comments were done well, and a thank you from several on the EC.
		3. Will upload later Sunday or early Monday (27th).
4. Chair presents slides 13 & 14, **ITU-R M.1450/M.1801 updates – standing by**
5. **From 802.11 ad hoc, ITU-R M.1450/M.1801 updates**
	1. Latest drafts now on .18 mentor:
	2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0061-00-0000-itu-ahg-recommended-edits-to-m-1450-5.docx>
	3. [https://mentor.ieee.org/802.18/dcn/20/18-20-0060-00-0000-itu-ahg-recommended-edits-to-m-1801-2.docx](https://mentor.ieee.org/802.18/dcn/20/18-20-0062-00-0000-fcc-draft-r-o-nprm-promoting-unlicensed-use-of-the-6ghz-band-et-18-295.pdf)
	4. 802.11 Ad Hoc chair reviewed the 2 docs in detail.
	5. One note came up and will look at the M.1801 and if 802.11af, TV white space, needs any updates, or not?
	6. Setting some dates so ready for LMSC teleconference 02June.
		1. Last input 30 April to the author
		2. 802.18 to vote 07 May, +/- other agenda items.
	7. **Met with key people 25Mar20, Current plan**
	8. Submission of 802.11 ITU AHG recommendations to 802.11 & .18 after 30Mar meeting
	9. Presenting to 802.18 in detail after 30Mar.
	10. 802.18 to ask for EC Approval for submission to WP 5A
		1. Approve in .18 in May, at latest.
		2. Goal is 02Jun20 EC meeting for IEEE 802 approval
	11. Working Party 5A Meeting (DELAYED), now meeting dates are: 20-30 July 2020
	12. Deadline for contributions16:00 hours UTC: Monday, 13 July 2020
		1. Plan to have ITU liaison upload to ITU-R WP5A, 1st week of July
	13. 802.11 ITU AHG Monitoring WP5A after July 2020 for any needed contributions going
6. Chair presents slides 15-16, **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. If adopted, the draft Report and Order would authorize 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. Draft of R&O **and FNPRM;** Open Meeting and Mentor; proceeding:
		3. <https://www.fcc.gov/news-events/events/2020/04/april-2020-open-commission-meeting>
		4. <https://mentor.ieee.org/802.18/dcn/20/18-20-0062-00-0000-fcc-draft-r-o-nprm-promoting-unlicensed-use-of-the-6ghz-band-et-18-295.pdf>
		5. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-295&sort=date_disseminated,DESC>
		6. To be voted on today-23April20 Open Commission Meeting. (Sunrise started, the 16th.)
			1. It passed this morning, the 24th.
		7. Filings in past week, R&O and FNPRM: change words here and there, foot notes, etc.
		8. Some folks opposing the process and is this a valid R&O:
			1. The FCC is the judge on harmful interference. A legal fact since 1934.
		9. This week: 22nd  Commissioners vote; 23rd Commission open meeting to announce outcome; 24th , will see the vote on R&O.
		10. Then tomorrow 24April, Friday, there is a 4 hour call about this, w/Chairman Pai speaking.
		11. On this web page, the voted-on PDF and commission statements are expected Friday 24 April;
		12. [**https://www.fcc.gov/document/promoting-unlicensed-use-6-ghz-band-0**](https://www.fcc.gov/document/promoting-unlicensed-use-6-ghz-band-0)
		13. <https://www.federalregister.gov/documents/2020/04/24/2020-08724/open-commission-meeting-by-teleconference-thursday-april-23-2020?utm_campaign=subscription+mailing+list&utm_source=federalregister.gov&utm_medium=email>
		14. Some quick points discussed in our teleconference.
		15. Client was to be 6 dB below APs (dynamic)
			1. However it returned to a fixed power limit for Client. This is new and need to find the details.
		16. Need to review the FNPMR about indoor clients.
		17. Portable (as a Master) under AFC control, should look at that also.
		18. Need to watch for updates to the related KDBs as they come, with lower level details.
			1. e.g. KDB 905462 d03 (U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY) from the previous rules. To cover all the U-NII bands, these new ones will need to be added.
7. Chair presents slides 17 and 18, General discussion items
	1. FYI - [ISED Interference-Causing Equipment Standard, ICES-003, issue 7, April 2020 – Information Technology Equipment (including Digital Apparatus)](https://www.rabc-cccr.ca/open-consultations/ised-interference-causing-equipment-standard-ices-003-issue-7-april-2020-information-technology-equipment-including-digital-apparatus/)
		1. Apr 17, 2020, [https://www.rabc-cccr.ca/consultations/open/](https://urldefense.proofpoint.com/v2/url?u=http-3A__clicks.memberclicks-2Dmail.net_ls_click-3Fupn-3DjDg7DKlgMQrSKT3yeRSniOnS7d9Dq7XneQhRNipGTCPxCGm5MZBsY2nlDqMlS2V10-2D2FHQKW0EYkFL0ShwWksrJhcvfbkgWO-2D2B7-2D2BA3frG1uPVuAyT0ndI07C-2D2FVvUaARhQmRU3Zt-5FLmofkRwGIXGem2hrUldYHuVxzC2ckweewev5YySPjdO9XEqLJlIQWXCTxLs8NeqQT0U18hnvqn69qOUlMO821d2QUXELme2yONe8lW434mom7frCBXwGMVRqAex2UuLmF8szhJJX30aUjiQxVcL5dDETFsUSYNU1WQVY1MIWdJfR5RTFif5Y1uD0pCAt8XxOHFm8Z0IO014GvG7F437U3VzCCqMI3OKX2fmJcb-2D2Br2hPlJTAWZV-2D2FD4TY8PZInNTs3wGDEGCHPQQZhEwG-2D2FRh-2D2BsNC1q0k1YO8O2rjyuCBIzF5f0bPSdyyyneoW3pLYLh-2D2BRVKNlC5FnnEw4qLhMgB-2D2BDlY0t2sXTHanoFfRitZebtSX0-2D3D&d=DwMFaQ&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=ajzb4uK5vETuQaC5sZu6F9LK2SJ0gHaW77N3qdT_lT4&s=lBQsbKB4XhhFfcXl6_OIr1bLmswXZGvA_d1T2KpSV8I&e=)
		2. The Department of Innovation, Science and Economic Development Canada is seeking comments on the following CONSULTATION: ICES-003, issue 7, “Information Technology Equipment (including Digital Apparatus)” sets the minimum requirements applicable to information technology equipment (ITE), including digital apparatus. These requirements include limits for and methods of measurement of radiated and conducted radio frequency emissions produced by ITE equipment, as well as administrative requirements applicable to such equipment.
	2. **Public Visibility Standing Committee**
		1. To raise industry awareness in timely fashion of IEEE 802 WG / TAG activities
		2. Develop social media content based on IEEE 802 WG / TAG activities for distribution on approved IEEE 802 social media channels
			1. Twitter
			2. LinkedIn (to be developed)
		3. Looking for anyone to work on the SC, and with 802 recording secretary, to pass along any new worthy items from 802.18/RR-TAG?
		4. Anyone\_\_\_\_\_\_\_
	3. **FYI - Final rule. Expanding Flexible Use of the 3.7 to 4.2 GHz Band**
		1. [**https://www.federalregister.gov/documents/2020/04/23/2020-05164/expanding-flexible-use-of-the-37-to-42-ghz-band?utm\_medium=email&utm\_campaign=subscription+mailing+list&utm\_source=federalregister.gov**](https://www.federalregister.gov/documents/2020/04/23/2020-05164/expanding-flexible-use-of-the-37-to-42-ghz-band?utm_medium=email&utm_campaign=subscription+mailing+list&utm_source=federalregister.gov)
		2. In this document, the Federal Communications Commission (Commission) adopts rules to reform the use of the 3.7-4.2 GHz band, also known as the C-Band. By repacking existing satellite operations into the upper 200 megahertz of the band (and reserving a 20 megahertz guard band), the Commission makes 280 megahertz of spectrum available for flexible use throughout the contiguous United States, and does so in a manner that ensures the continuous and uninterrupted delivery of services currently offered in the band. The Commission will hold a public auction to ensure that the public recovers a substantial portion of the value of this resource. And the Commission schedules that auction for later this year, with a robust transition schedule to ensure that a significant amount of spectrum is made available quickly for upcoming 5G deployments. This action is the next critical step in advancing American leadership in 5G and implementing the Commission's comprehensive 5G FAST Plan. The Commission modified the Report and Order released on March 3, 2020 with an erratum released on March 27, 2020 and a second erratum released on April 16, 2020. The changes from the first and second errata are included in this document.
8. Chair presents slide 19, Actions required
	* **Review 6GHz R&O and FNPRM, if anything for IEEE 802.**
	* **ITU-R M.1450 & M.1801 submissions from 802.11, inputs from anyone, by 30 April.**
* **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 20 Any Other Business
	1. There is a wireless chairs meeting on 12 May, noon-et, agenda is not out.
	2. 15 in attendance, 11 voters.
2. Chair presents slide 21, Adjourn
	1. **Next weekly teleconference (scheduled to 03sep): 30Apr20–*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 list server.
	2. **Note: current call-in, r14 is good through 07 May and is not on the IEEE new teleconference calendar.** <http://ieee802.org/802tele_calendar.html>
		1. Starting 14 May, there will be a new call-in, using the IEEE Seat 4 webex
			1. You have to copy out of the calendar and past into word to get the link or go to ‘more details’; at the bottom.
		2. Or, on the .18 web page or in the next call-in doc18-16-0038r15. **or a backup slide in agenda**
	3. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:56et
	4. **The next face to face meeting is tbd. Note, Montreal in July is cancelled.**
	5. .**Thank You**