IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 09 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, 09 Apr 20

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **09apr** | **08apr** | **07apr** | **06apr** | **03apr** | **02apr** | **31mar** | **26mar** | **19mar** |
| Auluck | Vijay | Self Employed | **x** |  | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Berens | Friedbert | FBConsulting Sarl |  | **x** | **x** | **x** |  |  |  |  |  |
| Boldy | David | Broadcom | **x** |  |  |  |  | **x** |  |  |  |
| De Vegt | Rolf | Qualcomm |  |  |  |  |  |  |  |  |  |
| Ecclesine | Peter | Cisco Systems, Inc. |  |  |  |  |  | **x** |  | **x** | **x** |
| Fang | Yonggang | ZTE TX Inc | **x** |  |  |  |  | **x** |  | **x** |  |
| Harrington | Tim | Pro ID & UWB Alliance | **early** |  |  |  |  | **x** |  | **x** |  |
| Holcomb | Jay | Itron Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Jeffries | Tim | FutureWei |  |  |  |  |  | **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 |  |  |  |  |  |  |  |  | **x** |
| Lepp | James | BlackBerry | **x** |  |  |  |  | **x** |  |  |  |
| Lynch | Mike | MJLynch Assoc | **x** |  |  |  |  | **x** |  | **x** | **x** |
| Nikolich(lmsc) | Paul | Self and others | x |  |  |  | x | x |  | x | x |
| Palm  | Stephen | Broadcom |  |  |  |  |  |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. |  |  |  |  |  |  |  |  | **x** |
| Sarris | Ioannis | u-blox | **x** |  |  |  |  |  |  |  |  |
| Shellhammer  | Steve | Qualcomm  |  |  |  |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE | **x** |  |  |  |  |  | **x** | **x** | **x** |
| Yaghoobi | Hassan | Intel Corporation |  |  |  |  |  | **x** |  | **x** | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **09apr** | **08apr** | **07apr** | **06apr** | **03apr** | **02apr** | **31mar** | **26mar** | **19mar** |
| Andersdotter | Amelia | Self |  | **x** | **x** | **x** | **x** |  |  |  |  |
| Au | Edward | Huawei | **x** |  |  |  |  |  |  | **x** |  |
| Goldbberg | Jonathan | IEEE |  |  |  |  |  |  |  |  | **x** |
| 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** | **x** | **x** |
| Schiessl | Sebastian | u-blox | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |
| Lisa | Ward | Rohde&Schwarz | **x** |  |  |  |  | **x** |  |  |  |

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

1. Chair presents slides 2 – 6 of 802.18-20/0053r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0053r01, the agenda:
	1. Call to Order
	2. Administrative items
		1. Someone to take some notes: Stuart K.
	3. Approve agenda & last minutes
	4. Discussion items
		1. EU Items
		2. ITU-R Items
		3. FCC NPRM on 5.9GHz reply comments
		4. ITU-R SM.2352 submission
		5. ITU-R M.1450/M.1801 submissions
		6. General Discussion Items
	5. Actions required
		1. FCC NPRM updated reply comments to EC if approved
		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: Vijay Auluck (Self)

Seconded by: Stuart Kerry (Ruckus/CommScope)

Discussion? None

Vote: Approved by unanimous consent

* 1. Motion: To approve the minutes from the IEEE 802.18 Teleconference 02 April 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0054-00-0000-minutes-02apr20-rrtag-teleconference.docx> 03-Apr-2020 11:22:25 ET

Moved by: Mike Lynch (MJLync Assoc.)

Seconded by: Stuart Kerry (Ruckus/CommScope)

Discussion? None

Vote: Approved by unanimous consent

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; likely on-line but is tbd,**
		1. 4/14/20: EN 301 893 Adaptivity GotoMeetings (9:00-10:30 and 11:00-13:30 CET)
		2. 4/15/20: 19:00-21:00 CET EN 303 687 Channel Access Mechanism
		3. 4/16/20: 19:00-20:30 CET EC Review discussion related to EN 301 598 (White Space Devices)
	2. **ETSI - ERM -** [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **next calls, 29Apr, 14May**
		1. 4/9/20 ERM TG11 SRDoc Drafting Session #7 call
		2. 3 contributions related to updating TR 103 665
			1. ERMTG11(20)000015 Medium Utilization proposal providing a description of the implications for non-adaptive HF and non-FH equipment  resulting from the application of the existing MU formula.
			2. ERMTG11(20)000016 Related to a proposal, based around 802.11ax, to review applying the EIRP power limits to each transmitter. Proposal to draft a LS to IEEE at the next GoToMeeting on 4/29/20
			3. ERMTG11(20)000017  BT updates accepted.
		3. **CEPT – ECC** [**<SE45>**](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next meeting #11, 14-16Apr20, online only**
			1. 4/14/20 to 4/16/20 (3 days)   SE45#11 GoToMeetings 13:30-18:30 CET (each day)
		4. **CEPT – ECC** [**<FM57>**](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next meeting #10, 12-14May20, online only**
			1. 4/7/20 17:00-19:00 CET FM57 Webmeeting#9.2 mainly discussing French proposals for databases for LPI in 6GHz
			2. 4/17/20  17:00-19:00 CET FM57 Webmeeting#9.3
2. **Chair presents slide1 11, ITU-R items to share**
	1. **Note, the ITU-R WP1A 29 May 2020 meeting is postponed**
		1. Have heard maybe to December 2020, or maybe a virtual meeting, or not? Tbd.
3. **Chair presents slide 12-14, 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 Monday 27 April, need .18 to approve today, the 9th
	4. Original reply comments already initially reviewed by the EC.
		* 1. marked up r05: <https://mentor.ieee.org/802.18/dcn/20/18-20-0045-05-0000-reply-comments-fcc19-138-nprm-revisiting-5-850-5-925-ghz-band.docx>
			2. clean r06: [https://mentor.ieee.org/802.18/dcn/20/18-20-0045-06-0000-reply-comments-fcc19-138-nprm-revisiting-5-850-5-925-ghz-band.docx](https://urldefense.proofpoint.com/v2/url?u=https-3A__mentor.ieee.org_802.18_dcn_20_18-2D20-2D0045-2D06-2D0000-2Dreply-2Dcomments-2Dfcc19-2D138-2Dnprm-2Drevisiting-2D5-2D850-2D5-2D925-2Dghz-2Dband.docx&d=DwMFaQ&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=Btfhank7v4MpFhvyx9svYK80_5mgQmHnB3Hi4SAZLVw&s=AZ-t_5uDBPcFHp_XQuZZ_yHHSwxfHYrT5bP31iPRTSU&e=)
	5. Due to .18’s and EC’s original ballots requested an upload date of 06April; with the FCC extension, we let the EC know a ballot failure would allow us to file closer to the new extension due date and we could consider updated reply comments.
		* 1. 🡪 EC ballot then failed and see next slide for updated reply comments
	6. **With the due date extension, a contribution was made with updated reply comments, both restructured and added content.**
	7. **The 802.18 ad hoc meetings the past week, as notices and statuses were sent out, have worked diligently through the updated reply comments and finished yesterday’s (08Apr20):**
		1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0057-11-0000-reply-comments-update-fcc19-138-nprm-revisiting-5-850-5-925-ghz-band.docx>
	8. **We need to choose one to approve to send to EC 10-day ballot.**
		1. Originally approved reply comments with EC editorial updates.
		2. Or, the updated reply comments.
	9. **Will review the updated reply comments for the .18 voters not in the ad hocs**
		1. There are 8 pages of text
		2. We need to be through the document by about 15:30ET, that is 2 – 3 minutes per page, so we have time to finalize and get through the balloting.
	10. **After review, all were okay to go with updated reply comments.**
		1. During review in the teleconference (09April), some grammar edits were made, hence r12
		2. Then a clean r13 was made to vote on and send to LMSC(EC)
	11. FCC NPRM – reply comments – extended date Revisiting-use-of-the-5850-5925-MHz-band
		1. **Motion:** Approve reply comments in <https://mentor.ieee.org/802.18/dcn/20/18-20-0057-13-0000-reply-comments-update-fcc19-138-nprm-revisiting-5-850-5-925-ghz-band.docx> ; to FCC NPRM (ET Docket No. 19-138) on Use of the 5.850-5.925 GHz Band for review and approval by the LMSC (EC) for uploading to the FCC on or before the FCC due date at the time. With the Chair of 802.18 authorized to make editorial changes, as necessary.

**Moved by:** Stuart Kerry (Ruckus/CommScope)

**Seconded by:** Mike Lynch (MJLync Assoc.)

**Discussion?** none

**Vote: \_12\_Y / \_0\_N / \_0\_A**

**Voters:** VijayA, DavidB, YonggaangF, JayH, CarlK, JohnK, StuartK, JamesL, MikeL, PaulN, IoannisS, DorothyS

**Motion - Passes**

\_17\_ on the call (16 during vote)

1. Chair presents slides 15 & 16, ITU-R SM.2352 on THz
	1. **Author was calling in next week, 16 April, to vote on submission.**
	2. **However just learned Wednesday, 8th, the WP1A meeting originally to be on 29 May, has been postponed.**
	3. **Final plans for the postponed is not known yet, stay tuned.**
2. Chair presents slides 17 & 18, **ITU-R M.1450/M.1801 updates – standing by**
3. **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. Chair presents slides 19, General discussion items FYI
	1. CHAIRMAN PAI PROPOSES NEW RULES FOR THE 6 GHz BAND, UNLEASHING 1,200 MEGAHERTZ FOR UNLICENSED USE
		1. *Draft Rules Would Provide a Boost to Wi-Fi and Other Unlicensed Uses While Protecting Incumbent Services in the Band*
		2. 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=) [Pdf](https://urldefense.proofpoint.com/v2/url?u=https-3A__docs.fcc.gov_public_attachments_DOC-2D363451A1.pdf&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=qkYmo1P6XmH1YvH1UkP-tyoCfcURwF2UYPYmrj-ahdc&s=3-2YMV4qliTA8voQCWinMdolzW3BfdmvaW7A0T_8-Ps&e=) [Txt](https://urldefense.proofpoint.com/v2/url?u=https-3A__docs.fcc.gov_public_attachments_DOC-2D363451A1.txt&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=qkYmo1P6XmH1YvH1UkP-tyoCfcURwF2UYPYmrj-ahdc&s=6fWZ09fL_NPKQPaXI7BCsts058h9bU4VKsFjo6SoecE&e=)
		3. 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.
		4. For draft of R&O **and FNPRM**:
		5. <https>[://www.fcc.gov/news-events/events/2020/04/april-2020-open-commission-meeting](https://www.fcc.gov/news-events/events/2020/04/april-2020-open-commission-meeting)
5. Chair presents slide 20, Actions required
	* **Chair to start LMSC(EC) ballot of FCC NPRM on 5.9GHz reply comments.**
	* **Next week (16 April), plan is/was-tbd vote on: ITU-R SM.2352 submission from 802.15 Terahertz IG, inputs from anyone.**
		1. With WP1A meeting postponed need to re-evaluate our submission due date.
	* **Soon: ITU-R M.1450 & M.1801 submissions from 802.11, inputs from anyone.**

**.**

* **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 21 Any Other Business
	1. None heard.
2. Chair presents slide 22, Adjourn
	1. **Next weekly teleconference (scheduled to 03sep): 16Apr20–*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. Have to copy out of the calendar and past into word to get the link,
		2. Or, on the .18 web page or in the next call-in doc18-16-0038r15.
	3. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:52et
	4. The next face to face meeting is tbd, possibly Montreal in July. Stay tuned.
		1. Warsaw Wireless Interim was cancelled.
	5. **Thank You**