IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 16 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, 16 Apr 20

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **16apr** | **09apr** | **08apr** | **07apr** | **06apr** | **03apr** | **02apr** | **31mar** | **26mar** |
| 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** |  | **x** |
| Harrington | Tim | Pro ID & UWB Alliance | **x** | **early** |  |  |  |  | **x** |  | **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 |  | 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** | **x** |
| Yaghoobi | Hassan | Intel Corporation |  |  |  |  |  |  | **x** |  | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **16apr** | **09apr** | **08apr** | **07apr** | **06apr** | **03apr** | **02apr** | **31mar** | **26mar** |
| 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** | **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 802.18-20/0071r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0071r01, 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. General Discussion Items
	5. Actions required
		1. ITU-R submissions inputs
		2. 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: Vijay Auluck (Self)

Discussion? None

Vote: Approved by unanimous consent

* 1. Motion: To approve the minutes from the IEEE 802.18 Teleconference 09 April 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0064-00-0000-minutes-09apr20-rrtag-teleconference.docx> 09-Apr-2020 20:59:31 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; online**
		1. Several calls this week,
		2. 4/14/20: EN 301 893 Adaptivity ((GotoMeetings having much difficulty with processes))
		3. 4/15/20: 19:00-21:00 CET EN 303 687 Channel Access Mechanism
			1. No conclusion and discussions continue. Next call is 05May20.
		4. 4/16/20: 19:00-20:30 CET EC Review discussion related to EN 301 598 (White Space Devices)
		5. A notable discussion is on user modifications (a 5yr topic…) e.g. DFS
			1. Questions on s/w updates after the sale in the field and how to handle this, etc.
	2. CEPT – ECC [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) next meeting #11, 14-16Apr20, online only 🡸 this week.
		1. By the 2nd day, could tell will need more time to get through the comments.
			1. Not making very good progress. Adding more calls.
				1. Fri April 17 11:00-15:00,
				2. Fri Apr 24 13:30-18:30,
				3. 27-29 April 13:30-18:30
		2. France and Sweden submitted studies during public comments then 3 more came later.
			1. Sweden asked for support for their position, and only 1 of 33 supported.
			2. Sounded like many points were not on ‘on topic’ to Draft Report 316, [TEMP001R1](https://urldefense.proofpoint.com/v2/url?u=https-3A__cept.org_ecc_groups_ecc_wg-2Dse_se-2D45_client_meeting-2Ddocuments_file-2Dhistory_-3Ffid-3D58254&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=dzbaB6GiiYHlMTidNlRFfkJAP4JvcOeWv1bTX-aytEs&s=tbx2pwHIHJCVBSK-68vsnwKnUzi7eit0v3jb37RoLd8&e=)
			3. If this continues, reports may not get out needed at WGSE’s next meeting,
	3. CEPT – ECC [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) next meeting #10, 12-14May20, online only
		1. Administration working on OOBE limits at 5935MHz, one decision last night, another due tonight.
		2. Next steps in tomorrow’s call (17th), includes other countries and protection processes in 6 GHz band.
		3. Docs:
		4. [FM57(20)013](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.cept.org_Documents_fm-2D57_58290_fm57-2D20-2D013-5Fcept-2Dadministration-2Dagreement-2Don-2Doob-2Dlevels&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=t2Yf4ZyHHmT_RyJDkcPU9rdl-HfkQiimf1EjFnTKoug&s=7kPxENqQKx9zjInhEuzsyvYpM2z8JOgTVWVx_VlfVJ8&e=) CEPT Administration agreement on OOB levels FM57 Chair
		5. [FM57(20)015](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.cept.org_Documents_fm-2D57_58282_fm57-2D20-2D015-5Fprotection-2Dof-2Dcbtc-2Dbelow-2D5935-2Dmhz-2Dfrom-2Drlan-2Dabove-2D5945-2Dmhz&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=t2Yf4ZyHHmT_RyJDkcPU9rdl-HfkQiimf1EjFnTKoug&s=SZll8I2mrXuur1bf4CZKSuRHhQoieY_GoV4nYGcZr-Q&e=) Protection of CBTC below 5935 MHz from RLAN above 5945 MHz SNCF, RATP, STIB, ALSTOM, SIEMENS
		6. [FM57(20)014](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.cept.org_Documents_fm-2D57_58281_fm57-2D20-2D014-5Finformation-2Don-2Dthe-2Dfcc-2Dprocess-2Drole-2Dof-2Dwinnforum&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=t2Yf4ZyHHmT_RyJDkcPU9rdl-HfkQiimf1EjFnTKoug&s=LTInHCtZR4OE-naOaAyfA2Et4S7jOcpykU0F740zuCc&e=) Information on the FCC process - Role of WinnForum Nokia
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 Monday 27 April
	4. **Status of LMSC(EC) ballot: Started Early Close on the 10th to finish on 20th.**
		1. 2 responses to date, will remind the EC again.
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. Schedule conflict today (16th) for author, move detailed review to next week (23rd).
	5. **Met with key people 25Mar20, Current plan**
	6. Submission of 802.11 ITU AHG recommendations to 802.11 & .18 after 30Mar meeting
	7. Presenting to 802.18 in detail after 30Mar.
	8. 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
	9. Working Party 5A Meeting (DELAYED), now meeting dates are: 20-30 July 2020
	10. 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
	11. 802.11 ITU AHG Monitoring WP5A after July 2020 for any needed contributions going
6. Chair presents slides 15-16, General discussion items
	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 in 23April20 Open Commission Meeting. Sunrise starts tonight, the 16th.
		7. Ex Partes have been filed, one from RLAN, asked for 16 changes, among other parties.
		8. Filings in past week, R&O and FNPRM: change words here and there, foot notes, etc.
		9. 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.
		10. An FCC internal final call this afternoon (16th), Chairman’s office to OET, then that is it.
		11. Next week: 22nd  Commissioners vote; 23rd Commission open meeting to announce outcome; 24th , will see the vote on R&O.
		12. Then 24April, Friday, there is a 4 hour call on all this, with Chairman Pai speaking.
	2. **From 802.15.3d, ITU-R SM.2352 on THz communications updates, standing by**
		1. ITU-R WP1A 29May20 meeting is postponed until 24Nov20, no word if e-meeting, we are on standby. Mentor: <https://mentor.ieee.org/802.18/dcn/20/18-20-0052>
7. Chair presents slide 17, Actions required
	* **Start to Review 6GHz R&O and FNPRM, if anything for IEEE802.**
	* **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 18 Any Other Business
	1. **15 present, 12 voters.**
2. Chair presents slide 19, Adjourn
	1. **Next weekly teleconference (scheduled to 03sep): 23Apr20–*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 15:48et
	4. The next face to face meeting is tbd, possibly Montreal in July. Stay tuned.
		1. Warsaw Wireless Interim was cancelled.
	5. **Thank You**