IEEE 802.18

Radio Regulatory-TAG

|  |
| --- |
| Radio Regulatory Technical Advisory Group Minutes |
| Date: 09 Jul 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 Jul 20

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **09jul** | **02jul** | **25jun** | **18jun** | **11jun** | **04jun** | **28may** | **21may** | **14may** |
| Auluck | Vijay | Self Employed | **x** | **x** | **x** |  | **x** | **x** |  | **x** | **x** |
| Boldy | David | Broadcom | **x** |  |  |  |  |  | **x** |  |  |
| de Vegt | Rolf | Qualcomm Incorporated |  |  |  |  |  |  |  |  |  |
| Ecclesine | Peter | Cisco Systems, Inc. | **x** |  | **x** |  |  | **x** | **x** | **x** | **x** |
| Fang | Yonggang | ZTE TX Inc | **x** |  | **x** |  |  |  | **x** |  | **x** |
| Harrington | Tim | Pro ID & UWB Alliance | **x** |  | **x** | **x** |  | **x** | **x** | **x** | **x** |
| Holcomb | Jay | Itron Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Jeffries | Tim | FutureWei | **x** |  | **x** | **x** | **x** | **x** | **x** |  | **x** |
| Jones | Vincent Knowles IV | Qualcomm Incorporated |  |  |  |  |  |  |  |  |  |
| 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** |
| Lepp | James | BlackBerry |  |  |  |  |  |  |  |  |  |
| Lynch | Mike | MJLynch Assoc | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** |
| Nikolich(lmsc) | Paul | Self and others | x |  | x |  | x | x | x |  | x |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Stanley (lmsc) | Dorothy | HPE | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Yaghoobi | Hassan | Intel Corporation | **x** |  | **x** |  | **x** |  | **x** | **x** | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **09jul** | **02jul** | **25jun** | **18jun** | **11jun** | **04jun** | **28may** | **21may** | **14may** |
| Andersdotter | Amelia | Self |  |  |  |  |  |  |  | **x** | **x** |
| Au | Edward | Huawei | **x** |  |  |  |  |  |  | **x** | **x** |
| D’Ambrosia(lmsc) | John | FutureWei |  |  |  |  |  |  |  | **x** | **x** |
| Goldberg | Jonathon | IEEE staff |  |  | **x** |  |  |  |  |  |  |
| Levy | Joseph | Interdigital | **x** |  | **x** | **x** | **x** | **x** |  |  | **x** |
| Madhavan | Narendar | Ericsson | **x** | **x** |  | **x** |  |  |  |  |  |
| Petrick | Al | InterDigital | **x** |  |  |  |  |  |  |  |  |
| Rosdahl(lmsc) | Jon | Qualcomm |  |  |  |  |  |  |  | **x** |  |
| Schiessl | Sebastian | u-blox | **x** | **x** |  | **x** | **x** | **x** | **x** | **x** | **x** |
| Ward | Lisa | Rohde&Schwarz |  | **x** |  |  | **x** |  |  | **x** |  |
| Yucek | Tevfik | Qualcomm |  |  |  |  |  |  | **x** | **x** |  |

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

1. Chair presents slides 2 – 6 of 802.18-20/0100r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0100r01, the agenda:
	1. Call to Order
	2. Administrative items
		1. Someone to take some notes, Peter E.
		2. Attendance and queue (in chat window), Stuart K.
	3. Approve agenda & last minutes
		1. Latest on moving forward
	4. Discussion items
		1. EU Items
		2. ITU-R Items
		3. Public Outreach on WP 5A submissions
		4. FCC R&O and FNPRM on 6 GHz
		5. General Discussion Items
	5. Actions required
		1. Anything new today
	6. AOB and Adjourn
3. Chair presents slides 8 - 10 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 02 July 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0099-00-0000-minutes-02jul20-rrtag-teleconference.docx> 03-Jul-2020 14:00:10 ET, with editorial privilege for the 802.18 chair.

Moved by: Stuart Kerry (Ruckus/CommScope)

Seconded by: Vijay Auluck (self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward**
		1. For September 2020 Wireless Interim (Atlanta) , the Wireless Chairs met and have postponed this interim to first available NAM wireless slot. (Today it is Jan 2024)
			1. Per 802 Op Manual section 5, we can have electronic meetings in between Plenaries, but such meetings do not count for participation credit.
		2. For November 2020 Plenary (Bangkok), the LMSC call on 07Jul20 (Tuesday) approved to cancel the venue for the Nov 2020 Plenary in Bangkok.
			1. This allows then for an electronic plenary, that can be worked on to setup over the next couple of months.
	2. **Administrative –July Plenary**
		1. For July 2020 Plenary:
			1. The plenary will start Friday 10 July 20 13:00 EDT, with an EC meeting
			2. And close on Friday 24 July 20 17:00 EDT, with an EC meeting.
		2. For the RR-TAG, we will have 2 meetings during a plenary session, which will be:
			1. 1) Thursday, 16 July 2020, 15:00-17:00 EDT (opening)
			2. 2) Thursday, 23 July 2020, 15:00-17:00 EDT (closing)
				1. As RR-TAG has done in plenaries, **it will take attending both for attendance credit.**
				2. Call-in is in back up slides here, on the 802.18 web site and an email soon.
			3. **IMAT has been setup** to take attendance for all WGs and TAGs for the 2 weeks.
				1. Will do roll call and watch Webex also.
		3. Elections will be held, for RR-TAG, during meeting on 16 July 20.
1. Chair presents slides 11-12, **EU items to share**
	1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next call, meeting #107, 28Sep-02Oct20**
		1. Chair of BRAN posted liaison on 6 GHz adaptivity logic which has been agreed upon and going into the draft rev 05.
		2. Note: IEEE 802.11 has been received liaison and will be posted soon.
		3. EN 303 687 standard being worked, with channel access process. Will be ED not PD in 6 GHz band
	2. **ETSI - ERM -** [**<TG-11>**](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **next call, SRDoc #12 - 30Jul20**
		1. New papers received on duty cycle to allow to go above 10 dBm, though others want no DC and more power.
		2. Progress is slow**.**
	3. **CEPT –** [**<ECC>**](https://cept.org/ecc/groups/ecc/client/introduction/) **(themselves) next call, #53 Plenary, 29Jun-03Jul20**
		1. Anything from call last week? Nothing shared
	4. **CEPT – ECC** [**<FM57>**](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next call, meeting #11, 08-10Jul20; (#12-05-07Oct20)**
		1. New WIs. 1) update 5 GHz for WRC-19 2) examine EC decision (04)08 RLAN to use 5150-5725, 3) 5.8 GHz band 4) ECC asking WGFM about protection to urban rail.
		2. Moving to correspondence (with more in Sept) and working to address these for 05Oct20 call. Time will be quick to finish up some by March of 2021.
2. Chair presents slide1 13, **ITU-R items to share**
	1. WP 5D liaison to WP 5A to request to discuss parameters for agendas 1.1 and 1.2. WP 5A will discuss in the call on 20Jul20.
3. Chair presents slide1 14-15, **IEEE 802 Public Outreach / ITU-R WP 5A**
	1. Example from 5.9 GHz NPRM:
	2. **@IEEE802 reply to FCC on use of the 5.9 GHz Band may be found at** [**https://bit.ly/3aCaXA1**](https://bit.ly/3aCaXA1)**. We endorse IEEE Std 802.11-based DSRC as best suited for V2X.**
	3. **Proposed modification to M.1450-5**
		1. This document proposes updates to the [ITU-R M.1450](https://www.itu.int/rec/R-REC-M.1450) working document based on standards development activities since last proposed updates.
		2. This Recommendation provides the characteristics of broadband radio local area networks (RLANs) including technical parameters, and information on RLAN standards and operational characteristics. Basic characteristics of broadband RLANs and general guidance for their system design are also addressed.
		3. What is .18’s suggestion for the ITU-R submission? Maybe? Edits?
		4. @IEEE802 submission to ITU-R WP 5A on updates to M.1450-5, characteristics of broadband radio local area networks (RLANs) including technical parameters, and information on RLAN standards and operational characteristics may be found at [<mentor link for now>](https://mentor.ieee.org/802.18/dcn/20/18-20-0061-04-0000-itu-ahg-recommended-edits-to-m-1450-5.docx)
	4. **Proposed modification to M.1801-2**
		1. This document proposes updates to the [ITU-R M.1801](https://www.itu.int/rec/R-REC-M.1801) working document based on standards development activities since last proposed updates.
		2. This Recommendation identifies specific radio interface standards for BWA systems in the mobile service operating below 7.125 GHz. The standards included in this Recommendation are capable of supporting users at broadband data rates, taking into account the ITU‑R definitions of “wireless access” and “broadband wireless access” found in Recommendation ITU‑R F.1399.
		3. What is .18’s suggestion for the ITU-R submission? Maybe? Edits?
		4. @IEEE802 submission to ITU-R WP 5A on updates to M.1801-2, interface standards for BWA (Broadband Wireless Access) systems in the mobile service operating below 7.125 GHz may be found at [<mentor link for now>](https://mentor.ieee.org/802.18/dcn/20/18-20-0060-04-0000-itu-ahg-recommended-edits-to-m-1801-2.docx).
4. Chair presents slides 16 -18, **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. The Report and Order authorizes 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. Preceding:
			1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-295&sort=date_disseminated,DESC>
		3. R&O is effective 27July20,
			1. <https://www.federalregister.gov/documents/2020/05/26/2020-11236/unlicensed-use-of-the-6-ghz-band?utm_campaign=subscription+mailing+list&utm_source=federalregister.gov&utm_medium=email>
	2. **APCO, AT&T and EEI have filed for a Stay,** see 18-295 proceeding link above for more.
		1. 30 days for FCC to rule on these. Several oppositions to the stay and several for the stay.
		2. All 3 will go to First Circuit Court of appeals. Expect it will be sooner, tbd.
		3. Nothing new since 06 July.
	3. **There have been several Petitions of Reconsiderations filed**
		1. And a Public Notice that Oppositions must be filed within 15 days once in Fed. Reg. for 4 petitions, APCO, CTIA, FWCC, Verizon.
		2. Pending Federal Register yet.
	4. **FCC R&O 6 GHz – MSG**
		1. There is One - Mutli-stake holder group (MSG) getting together 31 July 20 to discuss 6 GHz and what happens in the band. Focus is on formation of the group at this first call.
		2. WInn Forum and WFA are the initial organizations.
		3. Around 20 other organization and members of other organizations are coming on board and participating in this launch on the 31st (1300-1700 et)
			* 1. Working out how to approach this with rules and proper procedures with all the different organizations.
				2. 31st is a steering group, with FCC attendance.
				3. Stakes are getting higher……
		4. The is just a start of many meetings and calls and activities.
		5. Will discuss in upcoming calls.
	5. FNPRM as approved on 24 Apr 20 is on Mentor: - standing by.
		1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0062-02-0000-fcc-r-o-fnprm-promoting-unlicensed-use-of-the-6ghz-band-et-18-295.docx> 31 Seek Comments
		2. In Federal Register today (28th): <https://www.federalregister.gov/documents/2020/05/28/2020-11320/unlicensed-use-of-the-6-ghz-band?utm_campaign=subscription+mailing+list&utm_source=federalregister.gov&utm_medium=email>
		3. Comments due: 29June20; Many comments filed
			1. Need time to go through them.
			2. Possible common points for all of IEEE 802 to consider.
		4. Reply Comments due: 27July20.
			1. For the 10day LMSC ballot, would have had to approve today, 09July20.
			2. There is LMSC closing meeting on Friday 24July20 we could try for.
			3. **Would need someone to draft up the initial comments to get this going.**
5. Chair presents slides 19-20, General discussion items
	1. **Proposed Rule; Modernizing and Expanding Access to the 70/80/90 GHz Bands**
	2. **FR Document:** [**2020-14064**](https://urldefense.com/v3/__https%3A/www.federalregister.gov/documents/2020/07/06/2020-14064/modernizing-and-expanding-access-to-the-708090-ghz-bands?utm_source=federalregister.gov&utm_medium=email&utm_campaign=subscription*mailing*list__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ446zt_D9dA$) **Citation: 85 FR 40168** [PDF](https://urldefense.com/v3/__https%3A/www.govinfo.gov/content/pkg/FR-2020-07-06/pdf/2020-14064.pdf?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ444UBbFZGw$) **Pages 40168-40181 *(14 pages)*** [Permalink](https://urldefense.com/v3/__https%3A/www.federalregister.gov/d/2020-14064?utm_medium=email&utm_campaign=subscription*mailing*list&utm_source=federalregister.gov__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ447oinZQTg$)
	3. Dates
	4. Comments are due on or before August 5, 2020.
		1. .18 would have to approve in 2 weeks – 23July20.
	5. Reply comments on or before September 4, 2020.
	6. Proposed rule: <https://mentor.ieee.org/802.18/dcn/20/18-20-0104-01-0000-fcc-proposed-rule-modernizing-and-expanding-access-to-the-70-80-90-ghz-bands.docx>
		1. There are only 5 ‘seek comments’, highlighted in this copy of the proposed rule
	7. **Would need someone to draft up the initial comments to get this going.**
	8. Abstract: In this document, the Commission seeks comment to explore innovative new uses of the 71-76 GHz, 81-86 GHz, 92-94 GHz, and 94.1-95 GHz bands (collectively, the ``70/80/90 GHz bands''). In particular, the Commission seeks comment on potential rule changes for non-Federal users to facilitate the provision of wireless backhaul for 5G, as well as the deployment of broadband services to aircraft and ships, while protecting incumbent operations in the 70/80/90 GHz bands. The Commission seeks to promote expanded use of this co-primary millimeter-wave spectrum for a myriad of innovative services by commercial industry, and in particular, the Commission seeks to take advantage of the highly directional signal characteristics of these bands, which may permit the co-existence of multiple types of deployments. The Commission also denies two requests for partial waiver of the antenna standards for the 71-76 and 81-86 GHz bands. Because this is co-primary spectrum for Federal and non-Federal users, the Commission will coordinate any proposed rule changes with the affected agencies and the National Telecommunications and Information Administration (NTIA). This is consistent with established practice, in that, when evaluating any band that includes a shared allocation for Federal use, the FCC will work with NTIA to evaluate potential impacts associated with any new or expanded non-Federal use of shared allocations.
	9. E-Band ; With new technologies on sharing (from original plans in 2005), could something be done in three bands?
	10. Could we look to expand our standards above 71 GHz, e.g. in P802.11ay?
		1. Would only be a maintenance activity
	11. 802.15.3e would be able to add channels also; maintenance here also.
	12. Reading so far seems the FCC is not favoring IEEE 802 standards; we should review further and speak up.
	13. Summary - we should look at this more for IEEE 802.
	14. Could start with suggestion to start with 57-71 GHz rules and move up.
6. Chair presents slide 21, Actions required
	* **Need someone to draft up the initial comments to get this going, for the FCC 6 GHz FNPRM Reply Comments. Needs to be approved by 23July for LMSC closing on 24Jul20.**
	* **Need someone to draft up the initial comments to get this going, for the 70/80/90 GHz proposed rule. Needs to be approved by 23 Jul20, for 10-day ballot.**
* Start to consider what are IEEE 802 viewpoints are for WRC-23 agenda items.
1. Chair presents slide22 Any Other Business
	1. Korea MSIT consultation amending K37E such that wireless access systems including wireless LAN would be used in the frequency bands 5725-5850 MHz and 5925-7125 MHz.
		1. Please note that per K125B, UWB is already allowed to operate in 5925 MHz to 7125 MHz.
		2. The comment submission deadline is August 24, 2020.
		3. For details, please visit:
		4. <http://english.msip.go.kr/web/msipContents/contentsView.do?cateId=_law4&artId=2942267>
2. Chair presents slide 23, Adjourn
	1. **Next weekly teleconference (scheduled to 03sep): 30 July 20–*15:00–<15:55* ET**
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-16-0000-teleconference-call-in-info.pptx> (*or latest)* ***(new – weekly call in starts 30july20)***
			1. Or back up slide in the agenda.
		2. All late changes/cancellations will be sent out to the 802.18 list server.
	2. Plenary on 16 & 23 July has a different call-in, see agenda back up slides.
	3. **Overall IEEE 802 schedule:** [**http://ieee802.org/802tele\_calendar.html**](http://ieee802.org/802tele_calendar.html)
	4. or only 802.18: [IEEE 802.18 TAG Calendar](https://calendar.google.com/calendar/embed?src=c2gedttabtbj4bps23j4847004%40group.calendar.google.com&ctz=America%2FNew_York)
	5. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:58et
	6. **The next face to face meeting is tbd.**
	7. **Thank You**