IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
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| Name | Affiliation | Address | Phone | Email |
|  |  |  |  |  |
| Author and Officer presiding:  |
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Abstract

Minutes of the IEEE 802 RR-TAG Teleconference.

These are the Minutes of the IEEE 802 RR-TAG Teleconference, Thursday, 07Jan21

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

1. Chair presents slides 2 – 6 of 802.18-20/0159r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, the agenda:
	1. Call to Order
	2. Administrative items
		1. Someone to take some notes, jay
		2. Attendance & monitor chat, Stuart K.
	3. Approve agenda, last minutes & announcements.
	4. Discussion items
		1. EU Items
		2. Other Regions Items
		3. ITU-R Items
		4. MSG 6 GHz & FCC
		5. Table of Frequency Bands
		6. General Discussion Items
	5. Actions required
		1. Table of Frequency Bands, ad hoc
		2. WRC-23 IEEE 802 viewpoints
		3. Anything new today
	6. AOB and Adjourn
3. Chair presents slides 8 - 9 Administrative – Motions and more
	1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Stuart Kerry (OKBrit/self)

Seconded by: Vijay Auluck (Self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 17 December 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0160-00-0000-minutes-17dec20-rrtag-teleconference.docx> 18-Dec-2020 09:02:36 ET , with editorial privilege for the 802.18 chair.

Moved by: Vijay Auluck (Self)

Seconded by: Ben Rolfe (Blindcreek Assoc.)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward**
		1. For **January** **2021** Wireless Interim (Irvine) the Wireless Chairs met 30Sep20 and have cancelled the face-to-face meeting in Irvine, CA. This leaves open for the WGs to decide on their own if they do an electronic interim or not. The LMSC (EC) rules are being reviewed for possible participation credit. **With that, the chair has announced that .18 will have an interim session on the 14th and 21st of January 2021, each call, 1500-1555et.** (Call-in info is in the back up slides here and will be elsewhere.) Attendance will be like we do.
		2. Wireless interims:
			1. 802.11 - 11-15jan21 802.15 - 15-21jan21
			2. 802.18 - 14-21jan21 802.19 - not meeting 802.24 - 13jan21
			3. Note: updated rules to allow participation credit at a non-f2f interim is not likely to make it, still tbd.
		3. For **March 2021** the EC at their monthly telecon on 01Dec20 **approved to cancel the in-person part** of the March 2021 Plenary originally at Hyatt Denver and to hold an electronic session for the plenary. The EC is taking up the rule exceptions needed like in July and Nov.
			1. Time frame EC approved is from 05Mar21 (Friday) to 19Mar21
				1. However, the EC discussed the EC close may move up to Thursday 18Mar from 2-6et, tbd.
			2. Any input to move up the .18 call Thursday 18Mar21 to an earlier time?
				1. One input is what is .15 meeting times, to not overlap? (.11 reported they close on 16Mar)
				2. The chair will check with the .15 chair and coordinate plenary meeting times if needed.
		4. For **May 2021** at the Hilton in Panama City, Panama, the WCSC straw poll earlier was to continue with the contract with clear cancellation policies. With that, the IEEE has new language on cancellation policies, considering the pandemic, so it is much clearer. On the WSCS 09Dec20 call the **plan is to review Panama on the 03Feb21 WCSC call**.
1. Chair presents slides 10 & 11, **EU items to share**
	1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next call #109-05-12Mar21**
		1. Has been quiet with the holidays, the last meeting was 18Dec20.
		2. There will be many calls in January on different subjects. Some listed:
		3. 11Jan – User Access Restrictions
		4. 14Jan – EN 303 722
		5. 18Jan – BRAN 108a and EN 303 753
		6. 29Jan – TS 103 754
		7. 17Dec: There are other calls being setup for different activities, stay tuned.
			1. Remember BRAN reacts to CEPT and need to considered their calls and work.
			2. See below for what is being worked. The 5 GHz has a lot to do and has visibility.
		8. 10dec: Meeting all week, user access requirement is what is left to discuss.
			1. Current draft is in .11 members area, EN 303 687 and is in pretty good shape.
			2. Narrow band requirements have moved to a later time. (no agreement w/contributions)
			3. Will be some ad hocs before Feb meeting, they can make decisions.
			4. EN 301 893 5 GHz, still working on adaptivity, so not there yet.
			5. TV WS pulled out geo location (not an essential requirement so not in Harmonized Std.) , and rest is going out for publication.
			6. 60GHz still many drafts…..
	2. **ETSI - ERM -** [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **next meeting #72b, 03Nov20-22Feb20, correspondence**
		1. ERMTG11(20)000066ReportMeeting minutes of G2M#15 on the 2.4 GHz SRDoc TR 103 665
	3. **CEPT –** [**<ECC>**](https://cept.org/ecc/groups/ecc/client/introduction/) **next call #55, 01-05Mar21**
		1. From the CEPT Presidency and the ECO
			1. COVID-19 Crisis - Latest update from the CEPT Presidency and the ECO – Meetings of CEPT groups will remain online until at least 30 April 2021
		2. Also quiet otherwise.
		3. 17Dec: **EC** update from RSCom Dec 9, 10 - mandatory in 27 countries by 1 Dec 2021 (rules for the 500MHz)
			1. To allow Denmark to change CBTC (train control) frequency plans to stay below 5935 MHz (to 5915 MHz)
			2. The Committee reached a stable draft (on the substance) of the Implementing Decision (RSCOM20-42rev2). After completing internal preparations, it is planned that the Committee’s regulatory opinion will be requested by written procedure just after the next meeting in March 2021.
			3. 10dec: ECC was voluntary before. (3 countries objected – Denmark was one of these)
				1. 03dec: The list of 31 countries did not make the minutes, though the 31 countries will be implementing the ECC DEC (20)01 by 18May21. Some with caveats as expected.
2. Chair presents slides 12 and 13, **Other regions (outside EU-Stds and USA), items to share**
	1. 07Jan: No input received by the end of they year, so will move to monitor outcome.
		* 1. The final RABC meeting is today/07Jan21.
	2. 0/17Dec: Canada consultation we talked to a few weeks back, comments are due 19Jan21.
		* 1. Much was to harmonize with USA.
			2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0163-00-0000-ised-consultation-on-the-technical-and-policy-framework-for-licence-exempt-use-in-the-6-ghz-band.docx>
			3. RABC has 2 more meetings to respond/update the 18 questions. (RABC is technical only)
			4. For the Canada consultation on 6 GHz, if anyone wants IEEE 802 to comment, please send some initial text before the end of the year.
			5. RABC last meeting for inputs is Monday, 21Dec20, their last inputs are not out yet.
		1. UAE Regulator – Telecommunication Regulatory Authority (TRA) - published Ultra-Wide Band and Short-Range Devices (UWB and SRD) Regulation Version 4.0 on 22nd December 2020. The new regulation took effect immediately. Some of the points:
			1. Allows 5925-6425 MHz for Wireless Access System (WiFi 6E) for in-building use only at an EIRP of 250 mW
			2. Allows 5855 MHz - 5925 MHz for Intelligent Transport Systems (ITS) at an EIRP of 2W
			3. Level Probing Radar (LPR) usage
				1. 6 GHz – 8.5 GHz 5mW (7 dBm/50 MHz peak e.i.r.p.)
				2. (- 33 dBm/MHz mean e.i.r.p. within the LPR operating Bandwidths - within main beam) EN 302 729
				3. ECC Decision (11)02
			4. Includes technical conditions for UWB devices of below purposes:
				1. - UWB devices for Ground Penetration Radars (GPR) / Wall Penetration Radars (WPR) imaging systems
				2. - UWB Devices in Motor and Railway Vehicles
				3. - Trigger-before-transmit mitigation technique for vehicular access systems
			5. <https://www.tra.gov.ae/en/about-tra/telecommunication-sector/regulations-and-ruling/details.aspx#documents>
3. Chair presents slide 14 **ITU-R items to share**
	1. Nothing to share.
4. Chair presents slide 15, **MSG 6 GHz & FCC**
	1. **Any news on 1st circuit court of appeals?**
		1. As reported earlier, they denied motions to the stay and denied motions to expedite, so now there is basically no more clock to get to done.
		2. Latest: April 16, 2021 Final Briefs
		3. TBD Oral Argument (probably just FCC and Petitioners)
	2. BTW – FCC KDB [987594](https://apps.fcc.gov/oetcf/kdb/forms/FTSSearchResultPage.cfm?id=277034&switch=P) for 6GHz is out with revision
	3. Multi-stake holder group (MSG) on 6GHz and what happens in the band.
		* 1. The MSG site is not public but open to any interested party that wants to join in, *you do have to register and apply.* Was renamed to the “6GHz M.S. Committee”.
			2. [https://www.wirelessinnovation.org/6ghz-multistakeholder-committee](https://urldefense.com/v3/__https%3A/www.wirelessinnovation.org/6ghz-multistakeholder-committee__;!!F7jv3iA!miq8gKDh5u9EeBEqnJQ0xEKNYPoCPGlGj45FX_qjQNRwSaW1Br7N6myjjcdbTNciew$)
			3. From original organization meeting:
				1. Work stream 1 - interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO)

Including Outside/Field testing

* + - * 1. Work stream 2 - correct incumbent data (ULS) (Comsearch, APCO)
				2. Work stream 3 - AFC and how it provides protection, etc. (Charter, Google, UTC)
			1. Overall Co-chairs: NPSTC, UTC, WFA, WISPA
	1. Next overall MSG meeting - 22Jan21
		1. There are workstream meetings most every week.
		2. e.g. 14&28Jan21 – WS1;
1. Chair presents slides 16 - 17, **Table of Frequency Bands – IEEE 802 Stds – – no update**
	1. **Ad hoc team, .18 chair to lead the .18/.19 joint effort with all the wireless groups participating.**
		1. .11 tbd – though just point to Annex E in IEEE Std 802.11™-2020 (Dorothy for now)
		2. .15 Ben
		3. .16 Roger
		4. .22 reached out
		5. .18 Edward (w/jay)
		6. .19 Steve (co-lead)
		7. .24 Tim
		8. -EC Paul/Geoff
		9. 15 lead will provide what had been started on an 802.15 table before to review and see if that gets the overall table started.
	2. The ad hoc team on the table of frequency bands will meet over the next few months, and work on a recommendation.
		1. Will status in the .18 weekly teleconferences as appropriate.
	3. **Co-leads setting up Tuesday 26 Jan 21, 15:00et, for next ad hoc call.**
		1. Agenda points: problem statement, audience, how often to meet, etc.
	4. **Possible problem statement**
		1. It is difficult for 802 wireless standards developers to quickly and accurately identify all the bands by the family of 802 wireless standards in a regularly maintained database.
		2. The primary application is to simplify identification of potential bands for coexistence assessment.
		3. Discussion:
		4. Maintaining a database is different from a list of bands for coexistence assessment
			1. *It is a matter if interpretation/clarity of the first statement.*
			2. What is the actual task at hand?
		5. Maybe start with coexistence needs and drop down the possible audiences,
		6. “Coexistence” will be different in different regions, though where does this come in?
			1. 802.11 is in some bands as primary WAS/RLAN, some bands as Short Range Device, some bands as underlay. Different regulatory status for each.
	5. **Possible Audiences:**
		1. **1**) 802 wireless standards developers
		2. 2) 802.19 wireless coexistence working group
		3. 07Jan: can we add 802.18 here? Possibly, though not to disturb coexistence is primary, more for a reference for comments.
		4. 17Dec20: Stop here for now, then below are secondary audiences for later.
		5. 3) non-802 wireless standards developers 4) Global regulators
		6. 5) ITU-R 6) 802.18 Radio Regulatory TAG.
		7. 7) Implementors of 802 wireless standards-based products and services
		8. 8) Wireless academic researchers
2. Chair presents slides 18, **General discussion items**
	1. FCC Rules - Restoring Internet Freedom; Bridging the Digital Divide for Low-Income Consumers; Lifeline and Link Up Reform and Modernization FR Document: [2020-25880](https://urldefense.com/v3/__https%3A/www.federalregister.gov/documents/2021/01/07/2020-25880/restoring-internet-freedom-bridging-the-digital-divide-for-low-income-consumers-lifeline-and-link-up?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!nEr3tUVNwUldmPWpHN7gwMsgM2PpKI3AB-oNOCYaQC6cSggcnprDMWU_64e0MEcStg$) Citation: 86 FR 994 [PDF](https://urldefense.com/v3/__https%3A/www.govinfo.gov/content/pkg/FR-2021-01-07/pdf/2020-25880.pdf?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!nEr3tUVNwUldmPWpHN7gwMsgM2PpKI3AB-oNOCYaQC6cSggcnprDMWU_64eqZibaHw$) Pages 994-1021 *(28 pages)* [Permalink](https://urldefense.com/v3/__https%3A/www.federalregister.gov/d/2020-25880?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!nEr3tUVNwUldmPWpHN7gwMsgM2PpKI3AB-oNOCYaQC6cSggcnprDMWU_64fTrcH2WQ$)
		1. Abstract: In this document, the Federal Communications Commission (Commission) responds to a remand from the U.S. Court of Appeals for the D.C. Circuit directing the Commission to assess the effects of the Commission's Restoring Internet Freedom Order on public safety, pole attachments, and the statutory basis for broadband internet access service's inclusion in the universal service Lifeline program. This document also amends the Commission's rules to remove broadband internet service from the list of...
3. Chair presents slide 19, Actions required
	* The chair will check with the .15 chair and coordinate plenary meeting times if needed.
	* **The ad hoc team on the table of frequency bands will meet over the next few months, and work on a recommendation. Co-leads setup call for 26Jan21.** (call-in in agenda backup slides)
	* Chair – start up document with 4 + 3 WRC-23 agenda items IEEE 802 should consider viewpoints on.
		+ Work with APT so IEEE 802 is a recognized SDO for comments.
4. Chair presents slide 20 Any Other Business
	1. None heard
5. Chair presents slide 21, Adjourn
	1. **Next week, 14Jan21, will be the first of 2 Interim teleconferences.**
		1. Agenda will be much like a weekly and same call-in as weekly.
		2. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-17-0000-teleconference-call-in-info.pptx> **(new call in starting 14Jan21.)**
			1. Also, see back up slide in this agenda.
		3. All late changes/cancellations will be sent out to the 802.18 list server.
	2. **Next weekly teleconference (scheduled to 20May21): 28Jan21–*15:00–<15:55* ET**
	3. **Overall IEEE 802 schedule:** [**http://ieee802.org/802tele\_calendar.html**](http://ieee802.org/802tele_calendar.html)
		1. 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)
	4. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:37et
	5. **The next face to face meeting is tbd.**
	6. **The next IEEE 802 plenary will be electronic in March 2021**
	7. **Thank You**

Voting members

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| --- | --- | --- |
| Auluck | Vijay | Self |
| Boldy | David | Broadcom Corporation |
| Harrington | Timothy | UWB Alliance |
| Holcomb | Jay | Itron Inc. |
| Jeffries | Timothy | FutureWei Technologies, Inc. |
| Kain | Carl | USDoT |
| Kenney | John | TOYOTA InfoTechnology Center U.S.A. |
| Kerry | Stuart | OK‐Brit, Self |
| Levy | Joseph | InterDigital |
| Nikolich | Paul | Self, HPE, Huawei, Itron, octoScope, Wyebot, UNH BCoE, YAS BBV, Origin Wireless  |
| Rolfe | Benjamin | Blind Creek Associates |
| Stanley | Dorothy | Hewlett Packard Enterprise |
| Non Voting Attendees |   |
| Goldberg | Jonathan | IEEE |
| Petrick | Al | Skyworks (Jones-Petrick and Associates, LLC.) |
| Pirhonen | Riku | NXP Semicondustors |
| Ward | Lisa | Rohde & Schwarz |
| Yucek | Tevfik | Qualcomm |