IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 28jan21 |
| Name | Affiliation | Address | Phone | Email |
|  |  |  |  |  |
| Author and Officer presiding:  |
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Abstract

Minutes of the IEEE 802 RR-TAG weekly teleconference

These are the Minutes of the IEEE 802 RR-TAG weekly teleconference, Thursday, 28jan21

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

1. Chair presents slides 2 – 6 of 802.18-21/0008r01, 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.
		1. Attendance like normal with Webex check
		2. Remember to mute when not speaking, thanks.
		3. Please request Q in the chat window.
	2. Administrative items
		1. Someone to take some notes, Peter E.
		2. Attendance & monitor chat window, Stuart K
	3. Approve agenda, last minutes and 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. Anything new today
	6. AOB and Recess/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 (OK-Brit/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 07 January 2021 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0162-00-0000-minutes-07jan21-rrtag-teleconference.docx> 08-Jan-2021 10:21:21 ET, with editorial privilege for the 802.18 chair.

Moved by: Steve Palm (Broadcom)

Seconded by: Edward Au (Huawei)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward**
		1. 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. **EC updated approval times to 05Mar21 (Friday) to 18Mar21 (Thursday) 19Mar21**
			2. 802.18’s meetings will be Thursday 11Mar21 and Wednesday 17Mar21, 1500-1600 et.
			3. Currently no overlap with .11, .15 or .19. Chair checking with .24.
			4. 11th will be normal call-in; call-in info for 17th is in weekly agenda backup slides.
		2. 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 WCSC 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/meeting #108, 7-11Dec20**
		1. nothing to share
		2. Calls coming up on different subjects.
		3. 14Jan/09Feb – EN 303 722, Wideband Data Transmission Systems (WDTS) for Fixed Network Radio Equipment operating in the 57 - 71 GHz band.
		4. 18-25Jan – BRAN 108a and EN 303 753, WDTS for Mobile and Fixed Equipment in the 57 - 71 GHz band
		5. 29Jan – TS 103 754, BRAN MAP Performance testing
		6. 05Feb – EN 303 687 6 GHz RLAN Harmonised Standard
		7. Much focus on 5 and 6 GHz and user access restrictions
	2. **CEPT – ECC** [**<WGSE>**](https://cept.org/ecc/groups/ecc/wg-se/client/introduction/) **last call/meeting #87, 11-15 Jan 21 (#88-19-23Apr21)**
		1. -----
		2. SE19 has been studying for 10months for short term interference. Some disagreement with different members. If anyone has interest look at contributions in SE19. This is the only place for this study.
	3. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next call/meeting: \_\_\_coming\_\_\_**
		1. WGSE chair sent a report to SE45 tasking them to do sharing study with urban rail, due summer 2024.
		2. Anticipate other WIs could be coming (e.g. upper 6 GHz and 5 GHz in general)
	4. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next call #14 now 19-22Apr21**
		1. nothing to share
2. Chair presents slides 12, **Other regions (outside EU-Stds and USA), items to share**
	1. China MIIT has begun a public consultation on 2.4 GHz, 5150-5350 MHz, and 5725-5850 MHz bands with the objectives to strengthen and standardize the 2400-2483.5 MHz, 5150-5350 MHz and 5725-5850 MHz frequency bands, promote the development of related radio services, and maintain the order of air waves.  The consultation closes on February 28, 2021.
	2. For details, please visit: [https://www.miit.gov.cn/gzcy/yjzj/art/2021/art\_35e50edb407b4063a366372f2394a4c5.html](https://urldefense.com/v3/__https%3A/www.miit.gov.cn/gzcy/yjzj/art/2021/art_35e50edb407b4063a366372f2394a4c5.html__;!!F7jv3iA!mqEeHjQGQgLCg6qWQjIM7GQfxIqMwInnx6MlPGSwcw4Z5d6ad9jGS6Vp-8fT_oWCMg$)
	3. Allow 5100 MHz band indoors, not vehicles. OOBE -40 dBm/MHz at edges of 2.4 and 5.8 GHz bands.
	4. Now LBT in 2.4 GHz EN 300 328 and 5 GHz EN 301 893 requirements.
	5. Translation of the main text can be found here, with some updates from teleconference discussion.
	6. Main text translated in with some input from the discussion.
	7. [https://mentor.ieee.org/802.18/dcn/21/18-21-0001-02-0000-apac-update-january-2021.pptx](https://urldefense.com/v3/__https%3A/mentor.ieee.org/802.18/dcn/21/18-21-0001-02-0000-apac-update-january-2021.pptx__;!!F7jv3iA!iWeeY4nYG3u8clnEmwmC9BnsXjynL82hUb0sb_l7dYzoAEjmTCFzHvAKvuRFYlqcNQ$)
3. Chair presents slides 13, **ITU-R items to share**
	1. The 802.11 ITU-R ad hoc on M.1450 and M.1801 will have updated submissions for 802.18 (then LMSC) approval on 11Feb21. Current drafts (watch for latest) are:
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0163-00-0itu-proposed-modifications-to-itu-r-m-1450-5.docx>
		2. <https://mentor.ieee.org/802.11/dcn/21/11-21-0164-00-0itu-proposed-modifications-to-itu-r-m-1801-2.docx>
		3. Next ad hoc call will by 09Feb21. To finalize the submissions
	2. WRC-23 agenda items
		1. Will try a small focused ad hoc, 3 folks stepped up
		2. Chair to call a focused ad hoc call on putting together IEEE 802 viewpoints on WRC-23 agenda items of interests to IEEE 802. (sent some options to the volunteers)
		3. Need to start up document with 4 + 3 WRC-23 agenda items IEEE 802 should consider viewpoints on.
			1. Do have a start on this power point.
		4. Updated WRC-23 Agenda Item list: [https://mentor.ieee.org/802.18/dcn/20/18-20-0107-01-0000-res-811-wrc-19-wrc-23-agenda-items.docx](https://mentor.ieee.org/802.18/dcn/20/18-20-0107-00-0000-res-811-wrc-19-wrc-23-agenda-items.docx)
		5. Btw- initial AIs to consider IEEE 802 viewpoints:
			1. 1.1 800-4 990 MHz and Resolution 223. Connection w/ITS going there?
			2. 1.2 300-3 400MHz, 3 600-3 800MHz, 6 425-7 025MHz, 7 025-7 125MHz and 10.0-10.5GHz for International Mobile Telecommunications (IMT) and resolution 245.
			3. 1.5 470-960 MHz in Region 1-consider possible regulatory actions, Resolution **235.**
			4. 10recommend to the Council items for inclusion in the agenda for the next WRC,
		6. Then need to find more info on the following.
			1. 5 Report from the Radiocommunication Assembly, Nos. 135&136 of Convention.
			2. 6 items requiring urgent action by study groups in preparation for next WRC.
			3. 9 Report of Director of Radiocommunication Bureau, Article 7 of Convention.
		7. After IEEE 802 viewpoints in place then APT WRC-23 possible contribution on 6GHz and 7025-7125MHz, etc. by their next meeting in April ‘21
			1. Need to work with APT so IEEE 802 is a recognized SDO for comments.
			2. Could we attend virtually, may have a better impact on our comments?
4. Chair presents slide 14, **MSG 6 GHz & FCC**
	* 1. **Multi-stake holder groups (MSG) on 6 GHz and what happens in the band.**
			1. 1. The Winnforum site is not public (e.g. it has an IP policy and all) *you have to register being associated with a company that is a member of Winnforum and apply for memberhip.* Winnforum themselves do have a “6 GHz M.S. **Committee**” working the 6 GHz needs, with their own work streams and all. Their link is at:
			2. <https>[://www.wirelessinnovation.org/6ghz-multistakeholder-committee](https://urldefense.com/v3/__https%3A/www.wirelessinnovation.org/6ghz-multistakeholder-committee__;!!F7jv3iA!miq8gKDh5u9EeBEqnJQ0xEKNYPoCPGlGj45FX_qjQNRwSaW1Br7N6myjjcdbTNciew$)
			3. Members of the MSGroup below can attend calls of the Winnforum Committee above, just as observers.
				1. Anybody can participate in the WInnForum committee calls, but you need to get a member to post a submission.
			4. WS1 – is where there is more activity than the other WSs, WS1 and meets every week
			5. WS2 – did a report to FCC and others and will go into the FCC ex parte record.
				1. Working on ULS to have temporary fixed licensees cleaned up by end of 2021.
		2. **2. From the FCC R&O, an informal MSG (“Group”) has also been formed, which is separate from Winnforum’s, but is being hosted on the Winnforum’s website also. There is no IP policy for this group. This is the MSG 802.18 will focus on to keep up with. The link for this informal group is at:**
			1. <https>[://groups.wirelessinnovation.org/wg/6MSG/dashboard](https://groups.wirelessinnovation.org/wg/6MSG/dashboard).
			2. You still need to register for this informal group, and if not associated with a (Winnforum) company on the registration form, you can send an email to a person at Winnforum to get registered for this informal group. Several know who to contact.
			3. For the informal MS**Group**:
				1. Work stream 1 - interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO). Meets biweekly, from 28Jan21 at 10:00 et,
				2. Work stream 2 - correct incumbent data (ULS) (Comsearch, APCO)
				3. Work stream 3 - AFC and how it provides protection, etc. (Charter, Google, UTC)
			4. Overall Co-chairs: NPSTC, UTC, WFA, WISPA
			5. There are workstream meetings mostly bi-weekly, where the work is getting done.
		3. **Next overall MSGroup meeting – 26Feb21**
5. Chair presents slides 15 - 16, **Table of Frequency Bands – IEEE 802 Stds**
	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
			2. .15 Ben (Dorothy for now for .11)
			3. .16 Roger
			4. .22 reached out
			5. .18 Edward (w/jay)
			6. .19 Steve (co-lead)
			7. .24 Tim
			8. -EC Paul/Geoff
	2. .The ad hoc team on the table of frequency bands will meet over the next few months, and work on a recommendation.
	3. **The next meeting will be 23Feb21.**  (call-in is in agenda backup slides.)
	4. **At ad hoc this week (26Jan21):**
	5. **Problem statement**
		1. It is difficult for 802 wireless standards developers to quickly and accurately identify all the frequency bands by the family of 802 wireless standards in a regularly maintained database.
		2. The primary application is to simplify identification of potential frequency bands for coexistence assessment.
	6. Reviewed the .15 start at <https://mentor.ieee.org/802.18/dcn/21/18-21-0005-00-0000-freq-table-802-15-work.xlsx>
		1. Good discussion and will hide the num channel column (maybe something for later on). The use category column seems useful, but subjective.
			1. Action is for 2 members to break workbook into multiple (2 for now) work sheets, again trying to keep simple, j
	7. Looked at .11 annex E but from -2016 version, really need to get the -2020 version.
		1. The -2016 version has some focus on 3 specific regions (USA, EU, Japan) and a global section. Somehow, we need to come up to just frequency bands in the standard and remove the country specific (for now…)
6. Chair presents slide 17, **General discussion items – fyi**
	1. **Office of Engineering and Technology Seeks Additional Information Regarding Client-to-Client Device Communications in the 6 GHz Band**
	2. FR Document: [2021-01404](https://urldefense.com/v3/__https%3A/www.federalregister.gov/documents/2021/01/22/2021-01404/office-of-engineering-and-technology-seeks-additional-information-regarding-client-to-client-device?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!g505zKyorT2virPotapBCijbIH2BD45AhKr7RkAfu5OwolFP1X9GKl87NaV8GjE0Kg$), Citation: 86 FR 6644, [PDF](https://urldefense.com/v3/__https%3A/www.govinfo.gov/content/pkg/FR-2021-01-22/pdf/2021-01404.pdf?utm_source=federalregister.gov&utm_medium=email&utm_campaign=subscription*mailing*list__;Kys!!F7jv3iA!g505zKyorT2virPotapBCijbIH2BD45AhKr7RkAfu5OwolFP1X9GKl87NaV1QbC4Fw$) Pages 6644-6645 *(2 pages)* [Permalink](https://urldefense.com/v3/__https%3A/www.federalregister.gov/d/2021-01404?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!g505zKyorT2virPotapBCijbIH2BD45AhKr7RkAfu5OwolFP1X9GKl87NaVRBTaaIA$)
	3. Abstract: In this document, the Office of Engineering and Technology seeks additional information to supplement the record on whether the Commission should permit direct communications between unlicensed 6 GHz band client devices.
	4. Comments are due on February 22 and replies on March 23.
	5. <https://mentor.ieee.org/802.18/dcn/21/18-21-0004-00-0000-fcc-pn-client2client-in-6ghz-band-et-18-295.pdf>
7. Chair presents slide 18, **Actions required**
* The ch**air will check with .15/.19/.24 chairs and coordinate plenary meeting times. (.11 will be closed), due to looking at Wednesday 17Mar31, 3pm et, for the .18 2nd meeting of the plenary.**
* **Chair to send out to all the call-in info for next ad hoc on table of freq. bands.**
* **Chair to call a focused ad hoc call on putting together IEEE 802 viewpoints on WRC-23 agenda items of interests to IEEE 802.**
1. Chair presents slide 19 Any Other Business
	1. none heard
2. Chair presents slide 20, Adjourn
	1. Next “weekly” teleconference (sched’d to 20may21): 04feb21–*15:00–<15:55* ET
		1. 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.
		2. All late changes/cancellations will be sent out to the 802.18 list server.
	2. **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)
	3. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:55et
	4. **The next face to face meeting is tbd.**
	5. **The next IEEE 802 plenary will be electronic in March 2021.**
	6. **Thank You**
3. Attendance

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| --- | --- | --- | --- |
| Au | Edward | Huawei Technologies Co., Ltd | x |
| Auluck | Vijay | Self | x |
| Ecclesine | Peter | Cisco Systems, Inc. | x |
| Harrington | Timothy | UWB Alliance | x |
| Holcomb | Jay | Itron Inc. | x |
| Jeffries | Timothy | FutureWei Technologies, Inc. | x |
| Kain | Carl | USDoT | x |
| Kenney | John | TOYOTA InfoTechnology Center U.S.A. | x |
| Kerry | Stuart | OK‐Brit, Self | x |
| Lynch | Michael | MJ Lynch & Associates, LLC. | x |
| Nikolich | Paul | Self, HPE, Huawei, Itron, octoScope, Wyebot, UNH BCoE, YAS BBV, Origin Wireless  | x |
| Palm | Stephen | Broadcom Corporation | x |
| Rolfe | Benjamin | Blind Creek Associates | x |
| Stanley | Dorothy | Hewlett Packard Enterprise | x |
| Yaghoobi | Hassan | Intel Corporation | x |
| Non Voting Attendees |   |   |
| Hamilton | Mark | Ruckus/CommScope | x |
| Petrick | Al | Skyworks (Jones-Petrick and Associates, LLC.) | x |
| Pirhonen | Riku | NXP Semicondustors | x |
| Ward | Lisa | Rohde & Schwarz | x |
| Yucek | Tevfik | Qualcomm | x |