IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 04feb21 |
| 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, 04feb21

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

1. Chair presents slides 2 – 6 of 802.18-21/0010r01, 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. Remember to mute when not speaking, thanks.
		2. 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 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 (OK-Brit/Self)

Seconded by: Hassan Yaghoobi (Intel)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 26 January 2021 in document [https://mentor.ieee.org/802.18/dcn/21/18-21-0009-00-0000-minutes-28jan21-rrtag-teleconference.docxcx](https://mentor.ieee.org/802.18/dcn/20/18-20-0162-00-0000-minutes-07jan21-rrtag-teleconference.docx) 29-Jan-2021 09:04:59 ET, with editorial privilege for the 802.18 chair.

Moved by: Stuart Kerry (self/OK-Brit)

Seconded by: Vijay Auluck (self)

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 for 17th  is in backup slides here.
		2. For **May 2021** at the Hilton in Panama City, Panama, the WCSC approved yesterday, 03Feb21, to cancel the in person 802W interim. This leaves the WGs and TAGs to hold interims as they wish.
			1. Note: Working to move the Hilton in Panama to January 2022 Wireless Interim and then moving out the Hotel Irvine to a later date that was planned for January 2022. (Hotel Irvine has indicated they will probably not be ready to open in January 2022.)
		3. On EC monthly call Tuesday, 02Feb21, the monthly calls will start using UTC for the time. Not clear if all IEEE 802 times will be based on UTC, stand by.
			1. Request to keep anchored to USA; though some confusion on anchor point for the EC, stay tuned.
		4. Also, on EC monthly call Tuesday, 02Feb21, discussion opened again about minimal electronic meeting fee (<$100-tbd) to help cover ongoing expenses, with the treasury income very red. No decisions, still exploring. (Will allow <10 minutes for initial reactions.)
			1. No feedback brought up
1. Chair presents slides 11 & 12, **EU items to share**
	1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **last call/meeting #108, 7-11Dec20**
		1. Call tomorrow morning on EN 303 687, 6 GHz draft, on narrow band frequency hopping which there some opposing views.
		2. Another BRAN ad hoc is anticipated before #109, watch for announcement.
		3. Calls coming up on different subjects.
		4. 14Jan/09Feb – EN 303 722, Wideband Data Transmission Systems (WDTS) for Fixed Network Radio Equipment operating in the 57 - 71 GHz band.
		5. 18-25Jan – BRAN 108a and EN 303 753, WDTS for Mobile and Fixed Equipment in the 57 - 71 GHz band
		6. 29Jan – TS 103 754, BRAN MAP Performance testing
		7. 05Feb – EN 303 687 6 GHz RLAN Harmonised Standard
		8. 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. nothing to share
		2. -----
		3. 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. nothing to share
		2. 28Jan: WGSE chair sent a report to SE45 tasking them to do sharing study with urban rail, due summer 2024.
		3. Anticipate other WIs could be coming (e.g. upper 6 GHz and 5 GHz in general)
	4. **CEPT – ECC** [**<WGFM>**](https://cept.org/ecc/groups/ecc/wg-fm/client/introduction/) **next meeting #98, 8-12Feb21**
		1. Need to re-affirm 5 GHz band. This is input from FM57 that had some differences to work through, so differences moving to WGFM; also, wrc-19 output; and 5.8 GHz w/national modifications
		2. More info in the FM 57 output that will go to WGFM.
	5. **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. 21Jan: Have affirmed ECC Decision (04)08 decision on all 5 GHz RLAN usage. New meeting 11-13 May being setup to pick this up, as it will likely take till then to be ready.
		3. Some disagreement on power out from Resolution 229 WRC-19, so being moved up to WGFM.
2. Chair presents slides 13, **Other regions (outside EU-Stds and USA), items to share**
	1. Saudi Arabia RF Regulator – Communications and Information Technology Commission (CITC) – have published a follow up public consultation relating to its “Spectrum Outlook for Commercial and Innovative Use 2021 – 2023”. Along with this, the CITC have also published the responses received to the previous public consultation relating to its spectrum plans for IMT-2020 and beyond.
		1. The new consultation proposes the CITC’s plan to release more than 20GHz of additional radio spectrum. An online version of the public consultation can be found https://www.citc.gov.sa/en/new/publicConsultation/Pages/144201.aspx
		2. All interested stakeholders will have until 28th February 2021 to make any further written comments and submissions to Spectrum.Strategy@citc.gov.sa
3. Chair presents slides 14 & 15, **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
		4. Updated drafts to above will come out later on 09feb21.
	2. Note, 802.15 THz SC will be bringing a submission soon for a Liaison statement from ITU-R WP 5A to external organizations - Use of the 252-296 GHz frequency range by land-mobile service applications, <https://mentor.ieee.org/802.15/dcn/21/15-21-0002-00-0thz-liaison-statement-from-itu-r-wp5a.docx>
	3. 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,

1. Chair presents slides 16 - 17, **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 meets every week. Nice input last week actually.
			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.
			6. WS3 – AFC, working on a document to send to another MSGroup in another organization.
			7. Last week some from WinnForum met with FCC on ULS data. Interesting observation from FCC, using MSG as a place hold for ‘all’ MSGroups and efforts, beyond here and the MSGroup (next slide).
		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**
		4. **WS3 did post some docs and is good info for others, from earlier activities**
2. Chair presents slide 18, **Table of Frequency Bands – IEEE 802 Stds**
	1. **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.
	2. **Initial Audiences:**
		1. 1) 802 wireless standards developers
		2. 2) 802.19 wireless coexistence working group
	3. **Has reviewed the .15**  <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.
		2. Action: 2 members to break workbook to 2 work sheets, again trying to keep simple,
	4. **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…)
	5. **The next meeting will be 23Feb21. (call-in is in backup slides here)**
3. Chair presents slide 19, **General discussion items – fyi**
	1. none today
4. Chair presents slide 20, **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 21 Any Other Business
	1. none heard
2. Chair presents slide 22, Adjourn
	1. Next “weekly” teleconference (sched’d to 20may21): 11feb21–*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 15:37et
	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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| **Auluck** | Vijay | Self | **x** |
| **Ecclesine** | Peter | Cisco Systems, Inc. | **x** |
| **Holcomb** | Jay | Itron Inc. | **x** |
| **Kain** | Carl | USDoT | **x** |
| **Kenney** | John | TOYOTA InfoTechnology Center U.S.A. | **x** |
| **Kerry** | Stuart | OK‐Brit, Self | **x** |
| **Levy** | Joseph | InterDigital | **x** |
| **Lynch** | Michael | MJ Lynch & Associates, LLC. | **x** |
| **Nikolich** | Paul | Self, HPE, Huawei, Itron, octoScope, Wyebot, UNH BCoE, YAS BBV, Origin Wireless  | **x** |
| **Rolfe** | Benjamin | Blind Creek Associates | **x** |
| **Schiessl** | Sebastian | self  | **x** |
| **Stanley** | Dorothy | Hewlett Packard Enterprise | **x** |
| **Yaghoobi** | Hassan | Intel Corporation | **x** |
| **Non Voting Attendees** |   |  |
| **Haasz** | Jodi | IEEE-SA | **x** |
| **Hamilton** | Mark | Ruckus/CommScope | **x** |
| **Petrick** | Al | Skyworks (Jones-Petrick and Associates, LLC.) | **x** |
| **Pirhonen** | Riku | NXP Semiconductors | **x** |
| **Scott** | Andy | NCTA | **x** |
| **Yucek** | Tevfik | Qualcomm | **x** |