IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 01apr21 |
| Name | Affiliation | Address | Email |
|  |  |  |  |
| Author and Officer presiding:  |
| Jay Holcomb, Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | jholcomb@ieee.org |

Co-Vice-chair are Stuart Kerry (OK-Brit/Self) and Al Petrick (Skyworks Solutions)

Abstract

Minutes of the IEEE 802 RR-TAG teleconference

These are the Minutes of the IEEE 802 RR-TAG teleconference Thursday, 01apr21

Chair calls the meeting to order at 15:03 et

1. Chair presents slides 2 – 6 of 802.18-21/0032r01, 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 & announcements.
	4. Ballots: teleconferences and Vice-Chairs
	5. Discussion items
		1. EU Items
		2. Other Regions Items
		3. ITU-R Items
		4. MSGs on 6 GHz
		5. Table of Frequency Bands
		6. General Discussion Items
	6. Actions required.
		1.
		2. Anything new today
	7. 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 (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 of 25mar21in document <https://mentor.ieee.org/802.18/dcn/21/18-21-0029-00-0000-minutes-25mar21-rrtag-teleconference.docx> 26-Mar-2021 08:59:50 ET with editorial privilege for the 802.18 chair.

Moved by: Al Petrick (Skyworks)

Seconded by: Stuart Kerry (OK-Brit/Self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward**
		1. For **May 2021** that was at the Hilton in Panama City, Panama, the WCSC on 03Feb21 **approved to cancel the in-person 802W interim**. This leaves the WGs and TAGs to hold interims as they wish.
			1. At this point still no participation credit, no word from EC yet.
			2. Other WGs/TAGs
			3. .11: 10-18May21; .15: 11-20(early)May21;
			4. ,19:\_\_\_\_\_ .24: \_\_\_\_\_\_
			5. For .18 will plan on: 13 & 20May21 (normal Thursday’s, 1500et, 55 mins)
		2. For **July 2021** that was in Madrid, Spain, the LMSC(EC) on 05Mar21 **approved to cancel the in-person 802 Plenary.** It will be electronic like the past ones. And will have a $50 fee
			1. At the EC teleconference in April, likely to approve 09-23 July 21 dates.
			2. For .18 will plan on: 15 & 22Jul21 (normal Thursday’s, call-in, 1500et, 55 mins)
		3. For **Sept 2021** still on at the Hilton in Waikoloa, HI, 12th-17th. WCSC will be discussing at their next monthly calls.
1. Chair presents slides 10 & 11, **EU items to share**
	1. **ETSI is working on how to recoup all the costs for all the virtual meetings.**
		1. They are looking at virtual meetings at least until 01sep21 like CEPT.
		2. The ETSI technical director is circulating a proposal to the participant members. It is an internal document at this point.
	2. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next calls are #109a-15-22Apr21 and #109e-26-30Apr21**
		1. nothing to share
		2. 25mar: In BRAN(21)109061, ETSI TC BRAN ad hoc meeting #109e (26-30Apr21) will focus on
			1. • EN 301 893 (5 GHz),
			2. • EN 303 687 (6 GHz), and
			3. • the discussion of User Access Restrictions (UAR).
		3. 17mar21: Friday – 2 new versions of the 5 and 6 GHz standards were out.
		4. For 5 GHz the energy detection threshold was discussed. -62 dBm/20MHz for A and AC, and now AX. Depending on your power then -72 dBm to -62 dBm was agreed upon in the end and in the new draft. (An earlier objection was dismissed.)
		5. Next is User Access Restrictions that needs further discussion with EC. BRAN will discuss with the desk officer.
		6. 5.8 GHz band is being opened in some countries, but not all.
		7. 6 GHz narrow band frequency hopping concern being discussed on interference to others.
		8. 60 GHz – 3 stds today. Fixed deployment one is okay for assessment at EC.
		9. C1 Band one, AD and AY, coming out of ENAP now. Will need comment resolution next.
		10. There is a TR for coex in 5.8GHz band, need a new rapporteur.
		11. There is also TS 103 754 test plan for multi AP, for mesh systems being worked.
		12. See page 15 of <https://docdb.cept.org/download/25c41779-cd6e/Rec7003e.pdf> for details on the three different 60 GHz assignments.
	3. **CEPT**
		1. **Note: CEPT will only have virtual meetings through 01Sep21, at this point.**
	4. EC RSComm met earlier (9-10mar21). There are no formal minutes, decisions are public however.
		* 1. nothing to share
			2. 25mar21: 6 GHz decision was approved and going through admin procedure, countries have until 16April
			3. 17mar: The Draft decisions are available on [https://circabc.europa.eu](https://circabc.europa.eu/) , in the RSC library.
			4. Key point is by 01Dec21, all member countries are to adopt the 6 GHz regulations.
			5. Question on channels, they are defined in Annex E of 802.11. channel 2 with 5935 MHz center frequency is not allowed in Europe though is available for the FCC, that was the only channel brought up that is different.
2. Chair presents slides 12, **Other regions (outside EU-Stds and USA), items to share**
	1. **Saudi Arabia, CITC**, the consultation, due 03apr21, brought up a few weeks ago also includes specification R1117, that includes the full 1200MHz, 5925-7125MHz, for an unlicensed band.
	2. Today looking at using EN 300 440 / EN 301 893 for their 6 GHz, though will look at the EN 303 687 standard next. Stay tuned.
	3. Here is the specification R1117:
	4. <https://www.citc.gov.sa/ar/new/publicConsultation/Documents/144201/RI117_DataCommunication.pdf?csf=1&e=IEEU06>
	5. Here is the consultation:
	6. <https://www.citc.gov.sa/ar/new/publicConsultation/Documents/144201/TS_Public_Consultation.pdf>
	7. Also note, Saudi Arabia did a WiFi event this morning that included a demo trail, workshops, panels, Q&A, etc. Very encompassing.
	8. Sounds like CITC wants to be a leader in the region for WiFi in the 6 GHz band, we should stay tuned to what they do.
	9. Anything to share? None heard
3. Chair presents slide 13, **ITU-R items to share**
	1. The submission on THz communications was approved by the LMSC(EC) and is being uploaded to WP 5A.
	2. WRC-23 AI 9.1.c Railway Communication needs, e.g. track side, we should add to the list of possible AIs to consider to do IEEE 802 viewpoints on, as some of the IEEE 802 ITS folks may have an interest.
		1. Upon further review, this was for WRC-19 resolution 240 USA activity joining in with others, about the railway system between train and trackside (RSTT).
	3. WRC-23 agenda items
		1. Will try a small focused ad hoc. 5 folks stepped up. **Are there any others to help?**
		2. **Setting up 07apr21 at 16:00et, call-in in back up slides here.**
		3. Do have a start on this power point with 4+3 WRC-23 AIs IEEE 802 should consider viewpoints on
		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- the initial AIs to consider IEEE 802 viewpoints:
		6. 1.1 -800-4 990 MHz and Resolution 223. Connection w/ITS going there?
		7. 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.
		8. 1.5 -470-960 MHz in Region 1-consider possible regulatory actions, Resolution **235.**
		9. 10 **-**recommend to the Council items for inclusion in the agenda for the next WRC
4. Chair presents slide 14, **MSG 6 GHz**
	1. **Multi-stake holder groups on 6 GHz and what happens in the band.**
	2. **. The WInnforum “6 GHz Committee”, all groups meet every 2 weeks except interference-weekly**
		* 1. <https://www.wirelessinnovation.org/6ghz-multistakeholder-committee>
			2. For access to documents from the committee, can request to be an observer from the MSG below.
		1. New organization: 3 focus areas:
			1. AFC Functional Specification -WG – includes: Interference-TG and Incumbent Info-TG
			2. AFC Test and Certification-WG
			3. 3GPP-SIG
	3. **From the FCC R&O, an informal MSG (“Group”) has also been formed.**
		1. <https://groups.wirelessinnovation.org/wg/6MSG/dashboard>.
		2. Work stream 1 - interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO) Meets biweekly, from 28Jan21-10:00 et,
		3. Work stream 2 - correct incumbent data (ULS) (Comsearch, APCO)
		4. Work stream 3 - AFC and how it provides protection, etc. (Charter, Google, UTC)
		5. Overall Co-chairs: NPSTC, UTC, WFA, WISPA.
		6. nothing to share
			1. 25mar21: In WS1 today, a significant presentation on interference detection, that took the entire hour.
			2. The topic was on dribbling 2nds, most of them within 10dB of noise floor.
			3. Will see how this works out over time. Most significant prezo since the beginning of MSGroup
			4. For quality of a 1-9 = 3.7 errors per hour, < most SLAs (that is 3 days/year)
5. Chair presents slide 15 and 16, **Table of IEEE 802 Stds Frequency Bands**
	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. **Ad hoc calls**
		1. Good discussion before on proposed initial spreadsheet format, see latest with some notes at:
		2. <https://mentor.ieee.org/802.18/dcn/21/18-21-0020-01-0000-proposed-frequency-table-format.pptx>
		3. The spreadsheet has started:
		4. <https://mentor.ieee.org/802.18/dcn/21/18-21-0036-01-0000-frequency-table-template.xlsx>
	4. **The next meeting will be 27Apr21. (call-in in backup slides here)**
	5. **Inputs welcomed to add to these 2 lists for the future, anytime.**
	6. **Points for future adding countries / regions.**
		1. Different countries/regions have different users/services for same frequency range.
		2. How to handle regulators always updating users/services for different frequency ranges?
		3. Does licensed and licensed-exempt come into this table?
	7. **Points for future going to a user-friendly tool, and how to maintain**
		1. Stay with spreadsheet?
		2. Or a Data Base online, easier to search and sort possibly.
			1. If so how far out to change over? tbd
		3. Where to keep it?
			1. Stay with .18 mentor for now.
			2. Can IEEE SA post it if it goes to a data base? (and maintain)
		4. How often to update it? Or what is trigger?
		5. We need a clear source of the data, along with date of last info/update.
			1. Something to keep in mind, if too old, how good is the data?
			2. That is, add URL per item (if possible) and it should be the date \*per\* item not the overall document.
6. Chair presents slide17, **General discussion items**
	1. nothing today.
7. Chair presents slide 18, **Actions required.**
	* 1. The wrc-23 proposed action is not needed, for now.
* Chair to call a focused ad hoc call on putting together IEEE 802 viewpoints on WRC-23 agenda items of interests to IEEE 802. Setting up 07apr21 at 16:00et, call-in in back up slides here.
1. Chair presents slide 19 Any Other Business
	1. none heard
2. Chair presents slide 20, Adjourn.
	1. Next “weekly” teleconference (sched’d to 02sep21): 08apr21–*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>
		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 15:42et
	4. The next face to face meeting is tbd.
	5. **The next IEEE 802.18 (wireless) interim will be electronic in May 2021**
	6. **The next IEEE 802 plenary will be electronic in July 2021**
	7. Thank You
3. Attendance

Voting members:

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| --- | --- | --- | --- |
| **Auluck** | Vijay | Self | **x** |
| **Boldy** | David | Broadcom Corporation | **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** |
| **Nikolich** | Paul | Self, HPE, Huawei, Wyebot, UNH BCoE, YAS BBV, Origin Wireless  | **x** |
| **Petrick** | Al | Skyworks | **x** |
| **Rolfe** | Benjamin | Blind Creek Associates | **x** |
| **Yaghoobi** | Hassan | Intel Corporation | **x** |
| **Yucek** | Tevfik | Qualcomm | **x** |
| **Non Voting Attendees** |   |  |
| **Hamilton** | Mark | Ruckus/CommScope | **x** |
| **Rubin** | William | IEEE SA | **x** |