IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 04mar21 |
| Name | Affiliation | Address | Email |
|  |  |  |  |
| Author and Officer presiding:  |
| Jay Holcomb, Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | jholcomb@ieee.org |

Abstract

Minutes of the IEEE 802 RR-TAG weekly teleconference

These are the Minutes of the IEEE 802 RR-TAG weekly teleconference, Thursday, 04mar21

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

1. Chair presents slides 2 – 6 of 802.18-21/0023r01, 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. MSGs on 6 GHz (& FCC)
		5. Table of Frequency Bands
		6. General Discussion Items
	5. Actions required.
		1. Set up WRC-23 AIs ad hoc
		2. 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 (self/OK-Brit)

Seconded by: Vijay Auluck (self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 18 February 2021 in document <https://mentor.ieee.org/802.18/dcn/21/18-21-0017-00-0000-minutes-18feb21-rrtag-teleconference.docx> 19-Feb-2021 09:21:36 ET, with editorial privilege for the 802.18 chair.

Moved by: Ben Rolfe (Blindcreek Assoc)

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

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion: To approve the minutes from the IEEE 802.18 Teleconference 25 February 2021 in document** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0019-00-0000-minutes-25feb21-rrtag-teleconference.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0017-00-0000-minutes-11feb21-rrtag-teleconference.docx) **26-Feb-2021 11:32:33 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 **March 2021,** the EC 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.
			1. **EC has updated times from 05Mar21 (Friday) to 18Mar21 (Thursday) 19Mar21**
			2. 802.18’s meetings will be Thursday 11Mar21 and **Wednesday 17Mar21**, 1500-1600 et.
				1. Learned no conflict with .24 for the 17th call. So no known conflicts.
			3. 11th will be normal call-in; call-in for 17th  is in backup slides here.
			4. Being a plenary, it will take attending both calls for participation/voting member credit.
			5. IMAT is setup with the other WGs and TAGs like a normal plenary.
		2. For **May 2021** 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.
		3. Nominations for 2 RR-TAG Vice-Chair closed 03Mar21; two candidates have now self-nominated.
			1. Stuart Kerry (OK-Brit, self)
			2. Al Petrick (Skyworks Solutions)
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 (starts this week)**
		1. Agenda has been revised, only 2 spare sessions so far. Calls start mid-night pt.
		2. Sharing between NR and 802.11 technologies 5 GHz band is a topic.
			1. There are some new simulations have been done, though have not been published yet. Will see next week.
		3. User access restrictions will also be discussed.
	2. ETSI [<ERM>](https://portal.etsi.org/tb.aspx?tbid=286&SubTB=286) next meeting #73b, 23Feb21-07Jun21, correspondence
		1. ERM sent a Liaison Statement, ERM(21)000006r2, to SE21 on their work on a draft ECC Recommendation on “Receiver resilience to transmission on adjacent frequency ranges”
		2. To consider receiver resilience for a wide range of receivers may add burden to some receivers for limited or no benefit.. SE21 should take that into account
		3. <https://portal.etsi.org/tb.aspx?tbid=286&SubTB=286#/50610-contributions>
	3. **RS COM meets this week, 09-10 Mar 21, and will consider outcome from ECC, e.g. the mandatory 6 GHz decision and the 5GHz Decision (04)08;**
	4. **CEPT –** [**<ECC>**](https://cept.org/ecc/groups/ecc/client/introduction/) **(and more) next call, #55, 01-05Mar21 this week**
		1. <https://cept.org/Documents/ecc/62914/ecc-21-001-rev5_draft-agenda-55th-ecc-plenary>
	5. **CEPT – ECC** [**<SE21>**](https://cept.org/ecc/groups/ecc/wg-se/se-21/client/introduction/)  **next meeting #112, 24-26Feb21**
		1. See ETSI ERM for Liaison statement they sent to SE21 on receiver resilience.
		2. SE21 has established a correspondence group for receiver resilience requirements.
			1. ERM explicitly includes 2.4 GHz, implicitly it covers all license-exempt.
	6. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next call/meeting #13, 01-02Jun21** (13:30-18:30 CEST)
		1. nothing to share
		2. 28Jan: WGSE sent report to SE45 tasking them to do sharing study with urban rail, due summer 2024.
			1. Anticipate other WIs could be coming (e.g. upper 6 GHz and 5 GHz in general)
2. Chair presents slides 12, **Other regions (outside EU-Stds and USA), items to share**
	1. Canada has opened up two consultations, comments due 07May21 for both.
		1. They are leaning to how the FCC has done for a database., no fees, etc.
	2. <https://www.rabc-cccr.ca/ised-white-space-database-specification-dbs-01-issue-3-february-2021-draft-white-space-database-specifications/>
	3. This standard is technical requirements for the designation of a database capable of identifying available channels for use by white space devices (WSDs) in the white space frequency bands (54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 657-663 MHz).
	4. <https://www.rabc-cccr.ca/ised-radio-standard-specifications-rss-222-issue-3-february-2021-draft-white-space-devices-wsds/>
	5. This standard is the certification requirements for licence-exempt, radio apparatus operating in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 657-663 MHz, known as white space devices (WSDs)
	6. Send questions to ic.consultationradiostandards-consultationnormesradio.ic@canada.ca
	7. *There are other Canadian consultations coming in bands of interest to us.*
	8. The China consultation we discussed a month ago, many inputs, e.g. on OOB limits is drawing many comments. Need to watch this where it goes.
3. Chair presents slide 13, **ITU-R items to share**
	1. M.1450 and M.1801 LMSC (EC) ballot has closed, passes and in process of being uploaded.
	2. 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>
		1. After the call, heard back from THz SC and they are finishing up, the submission draft is at:
		2. <https://mentor.ieee.org/802.15/dcn/21/15-21-0122-00-0thz-liaison-statement-to-itu-r-wp5a.docx>
		3. 802.18 should see it for approval over the next couple of weeks. Only 2 pages of text.
		4. Goal is to have approved at the EC closing meeting on 18Mar21
	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. 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:
			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. 10 **-**recommend to the Council items for inclusion in the agenda for the next WRC,
4. Chair presents slide 14, **MSG 6 GHz (& FCC)**
	* 1. **Multi-stake holder groups on 6 GHz and what happens in the band.**
		2. **1. The Winnforum “6 GHz M.S. Committee”, every 2 weeks (met wk of 08Feb)**
		3. **2. From the FCC R&O, an informal MSG (“Group”) has also been formed.**
		4. **Anything to share?**
		5. Meetings are pretty quick though need to watch WS1 closely on interference mitigation etc.
		6. WinnForum is adding groups for more focus on restructuring, requirements, protocol and security. These are in addition to the WSs above.
5. Chair presents slide 15 and added slide 16 for discussion, **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. **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…)
	4. **Ad hoc from 23feb21, this week.**
		1. Good discussion 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. Need to consider creating lists for the future: country/regions and final tool/maintenance.
		4. With initial data **gathering spreadsheet format, who is going to populate it?**
	5. **The next meeting will be 30Mar21. (call-in in backup slides here) (5th Tuesday this month)**
	6. **Good discussion last week, basically standards, products and markets.**
	7. **Here are some topics discussed, will get to the ad hoc.**
		1. Country/region will be complex, will be done later
		2. Audience, keep in mind
		3. Need clarity on purpose
		4. Clarify the clause
		5. Is the band based in the standard and know to be used by the standard
		6. Cover unlicensed, licensed or shared use bands (could be both)
		7. Need explanation text, where does that go
		8. How will search work in the spreadsheet or final tool
		9. Maintenance
		10. Columns to right, bands or frequencies?
		11. Have non-wireless folks review maybe
		12. Long term, what industry uses the standard/frequency range
		13. Keep to a frequency table, don’t replicate the standards.
		14. Initial focus is for coexistence and 802.19
	8. Next week will start/clarify 2 lists for future considerations. Goal is to capture what has been brought in 2 clear lists;
		1. Countries/regions
		2. Final tool/maintenance
6. Chair presents slide 17, **General discussion items**
	1. none today
7. Chair presents slide 18, **Actions required.**
* **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. Need to get new meeting times options to the volunteers
* **Chair to check with .19 Chair if they will discuss anything on table of frequency bands during their plenary?**
1. Chair presents slide 19 Any Other Business
	1. none heard
2. Chair presents slide 20, Adjourn
	1. **Next week is the 1st of 2 calls for the IEEE 802 Electronic March 2021 plenary.**
	2. Next “weekly” teleconference (sched’d to 20may21): 25mar21–*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.
	3. 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)
	4. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:36et (20:36 UTC)
	5. The next face to face meeting is tbd.
	6. The next IEEE 802 plenary will be electronic in 05-18March 2021.
	7. Thank You
3. Attendance

Voting members:

|  |  |  |  |
| --- | --- | --- | --- |
| **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** |
| **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** |
| **Stanley** | Dorothy | Hewlett Packard Enterprise | **x** |
| **Yaghoobi** | Hassan | Intel Corporation | **x** |
| **Non Voting Attendees** |   |  |
| **Hamilton** | Mark | Ruckus/CommScope | **x** |
| **Madhavan** | Narendar | Ericsson | **x** |
| **Petrick** | Al | Skyworks | **x** |
| **Pirhonen** | Riku | NXP Semicondustors | **x** |
| **Scott** | Andy | NCTA | **x** |