IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 22apr21 |
| 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, 22apr21

Chair calls the meeting to order at 15:02 et

1. Chair presents slides 2 – 6 of 802.18-21/0044r01, 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. IEEE 802 Stds Table of Frequency Bands
		6. General Discussion Items
	6. Actions required.
		1. Send out 2 question poll on sept 21 interim
		2. Send out call-in for ad hoc on table of frequency ranges
		3. Work on affiliation check request
		4. All-ongoing-WRC-23 AI viewpoint text
		5. 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: Hasan Yaghoobi (Intel)

Seconded by: Mike Lynch ((MJLynch Assoc.)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 teleconference in document <https://mentor.ieee.org/802.18/dcn/21/18-21-0043-00-0000-minutes-15apr21-rrtag-teleconference.docx> 16-Apr-2021 13:39:21 ET with editorial privilege for the 802.18 chair.

Moved by: Vijay Auluck (Self)

Seconded by: Al Petrick (Skyworks)

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:\_n/a\_\_\_ .24: \_wed\_
			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.
			1. At the EC teleconference Tuesday (06Apr), approved 09-23 July 21 dates.
			2. Also the registration fee was approved. The plan:
			3. $50 – till 30June $75 registration fee after 30june.
			4. registration opens: 10 May
			5. reminder sent on 28june (2 days, before fee increases) and on 30june last day before fee increases.
			6. der sent on 05 july – notifying of $75 fee started 01july
			7. For .18 will plan on: 15 & 22Jul21 (normal Thursday’s 1500et, looking at 2 hour slot for one, possibly the 22nd. )
				1. Do not want to overlap with .19 with the 2 hr slot.
				2. The extra hour will focus on IEEE 802 WRC-23 AIs viewpoints
		3. **From WCSC call, 07apr21**
			1. Not for May, for future Wireless interims if we have any that are virtual:
				1. Will look closer to have them as a full Wireless Interim of all WG/TAGs, not as individual sessions.
				2. Will have specific time slots all meetings will adhere too. To help with overlap/adjacent meetings and stay with in 17:59 IMAT window.
				3. Likely will have a registration fee similar to what the plenaries are doing.
		4. For **Sept 2021** still on at the Hilton in Waikoloa, HI, 12th-17th. WCSC will be discussing in their 05may21 monthly call, virtual or f2f.
			1. With the dynamics and unknowns looking at an electronic survey of membership before 05may21. (19-23Apr21?)
			2. 2 questions coming: If Sept21 interim is f2f, will you be able to attend in person?
				1. And, If Sept21 interim is electronic, will a meeting registration fee of $50 ($75 late fee) prohibit you from participating?
			3. ePoll was enabled on .18 but is giving a system error. IEEE is working on it and have waited a few days and no resolution yet.
			4. With that, out of time, will get an email poll to all on the .18 list server, the email is ready.
		5. **Note:** **Hybrid meeting(s)** has been brought up several times, too complex and expensive, so not for now.
1. Chair presents slides 11 & 12, **EU items to share**
	1. **ETSI is working on how to recoup all the costs for all the virtual meetings.**
		1. 01apr: They are looking at virtual meetings at least until 01sep21 like CEPT.
			1. 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. 15apr: 109a-Agenda has comments from ENAP on EN 302 567 (60GHz, multi-GB, RLAN) and if needed a revised draft for ENAP again.
		3. 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. **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. 25mar21: 6 GHz decision was approved and going through admin procedure, countries have until 16April
	5. **CEPT – ECC** [**<WGSE>**](https://cept.org/ecc/groups/ecc/wg-se/client/introduction/) **next call #88, 19-23Apr21**
		1. nothing to share
		2. 15apr: SE21 – ECC recommendation on receiver performance. This is also with ERM, on the ETSI side.
			1. New phases of the RED are coming and will have new rules that will be adding more to the receiver standards.
		3. Not seeing anything on SE 45.
	6. **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. 15apr: Contributions have been posted, e.g. [FM57(21)007](https://cept.org/Documents/fm-57/64031/fm57-21-007_revisions-to-draft-ecc-report-on-national-measures-for-wasrlan-zip-file-cover-plus-annex) on 5.8 GHz. Also, [FM57(21)008](https://cept.org/Documents/fm-57/64032/fm57-21-008_country-determination-capability-cdc-requirements-for-was-rlan-operating-in-58-ghz) France has country determination capability input, it is back again.
		3. 08apr: Only topic at #14, is on 5.8 GHz sharing EC 04(08). Other docs are not through public EC consultations yet, so nothing to discuss.
2. Chair presents slides 13, **Other regions (outside EU-Stds and USA), items to share**
	1. Australia ACMA:
		1. <https://mentor.ieee.org/802.18/dcn/21/18-21-0040-00-0000-acma-consultation-exploring-rlan-use-in-the-5-ghz-and-6-ghz-bands.docx> Comments due: COB 05may21
		2. 6 questions: first one: What is the demand for spectrum for RLAN use in the 6 GHz band (5925–7125 MHz)?
		3. Also, question 6: Should the higher power regulatory arrangements and associated interference mitigation measures added to the International Telecommunication Union (ITU) Radio Regulations at WRC-19 (see [*Resolution 229 (Rev WRC-19)*](https://www.itu.int/dms_pub/itu-r/oth/0a/06/R0A0600009D0001MSWE.docx)) in the 5 GHz band be included in any amendment to the LIPD class licence?
		4. Reviewed the six questions
		5. Comment text from anyone? None seen
	2. Saudi Arabia, CITC, released a 3-year out look for commercial and innovative use of spectrum there:
		1. Mentor: <https://mentor.ieee.org/802.18/dcn/21/18-21-0041-00-0000-citc-spectrum-outlook-for-commercial-innovative-use-2021-23.pdf>
		2. One of the items:
		3. Unlicensed consultation (5925 – 7125 MHz and 66 – 71 GHz) Detailed plans for the 6 GHz and 66 – 71 GHz bands including power levels and any restrictions Consultation Q2 2021
		4. Looking for the consultation.
3. Chair presents slide 14, **ITU-R items to share**
	1. nothing new to share
	2. WRC-23 agenda items IEEE 802 viewpoints. **ad hoc: 5 folks stepped up. Are there any others to help?**
		1. From the 07apr21 ad hoc call (yesterday):
			1. Doc for viewpoints: <https://mentor.ieee.org/802.18/dcn/21/18-21-0039-00-0000-ieee-802-viewpoints-on-wrc-23-agenda-items.pptx>
			2. Key item was to review what we can on responses to consultations many countries are doing on topics related to WRC-23 AIs, e.g. on 6 GHz that is included in AI 1.2
			3. Though this process could work for other Agenda Items that maybe of interest to us also.
			4. It does seem the Arab states are engaging quicker than other regions, e.g. on 6 GHz.
			5. Oman has a consultation out on Wi-Fi 6;
				1. <https://www.tra.gov.om/En/ViewPublicConsultations.jsp?code=33>
			6. FCC WAC has a *preliminary* view on AI 1.2, we should look at this.
				1. <https://www.fcc.gov/us-contributions-sent-citel-pccii-wrc-23>
			7. Don’t forget the actual ITU-R WPs will be working AIs they have.
			8. **Next discussions will be during July 2021 electronic plenary**.
		2. Reference:
		3. 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)
		4. btw- the initial AIs to consider IEEE 802 viewpoints:
		5. 1.1 -800-4 990 MHz and Resolution 223. Connection w/ITS going there?
		6. 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.
		7. 1.5 -470-960 MHz in Region 1-consider possible regulatory actions, Resolution **235.**
		8. 10 **-**recommend to the Council items for inclusion in the agenda for the next WRC
4. Chair presents slide 15, **MSG 6 GHz**
	1. **The WInnforum “6 GHz Committee”, all groups meet every 2 weeks except interference-weekly (168people)**
		* 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 org: 2 (now) focus areas:
			1. 1) AFC Functional Specification -WG – includes: Interference-TG, Incumbent Info-TG, security (new) and 3GPP-TG (moved to this focus area)
			2. 2) AFC Test and Certification-WG
			3. Nothing to share
	2. **From the FCC R&O, an informal MSG (“Group”) has also been formed. (260+ people)**
		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. There was a WS1 call this morning, has a introductory presentation on studies between real fixed service links and wireless LPI available devices, already available. This was live in the field. More to come the results in detail.
			1. This is the same link used as reported in prior FCC dockets, out of Columbus, GA.
		7. Here are links to two good reports, you may need to request username/password which is open to anyone.
			1. Nokia <https://groups.wirelessinnovation.org/wg/6GHz-MSG-WS1/document/16057>
			2. Aviat [https://groups.wirelessinnovation.org/wg/6GHz-MSG-WS1/document/16060](https://urldefense.com/v3/__https%3A/groups.wirelessinnovation.org/wg/6GHz-MSG-WS1/document/16060__;!!F7jv3iA!ivim7mUl4J61_76KJL-rC6chy96h7Az9WLSZLOiSYPDClL47btdAt_QPJ1oi5bLnVw$)
5. Chair presents slide 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. The spreadsheet has started:
		2. <https://mentor.ieee.org/802.18/dcn/21/18-21-0036-01-0000-frequency-table-template.xlsx>
		3. nothing to share
	4. **The next meeting will be 27Apr21. (call-in in backup slides here)**
		1. Lead to send out call-in info to table of frequency bands ad hoc team .18 and .19.
6. Chair presents slide17, **General discussion items**
	1. From the EC ad hoc on IEEE 802 restructuring
		1. External Influence (Maintain Good Performance)
			1. Heard an argument about our influence on Regulatory Bodies. Our unified 802 submissions to Regulatory Bodies is good.  We probably want to maintain that strong process.
		2. So the thought is 802 is doing okay, though any feedback to the EC on if any restructuring or re-organization, what might be considered for influence on Regulatory bodies?
		3. For USA and EU, we are doing okay, though for other regions what can we do to strengthen our influence and connections? e.g. APAC, Africa, Latin America, etc.
		4. All – if you have any actionable possibilities to update/improve/etc. our external influence on regulatory bodies, as part of the IEEE 802 restricting, please pass along to the chair.
	2. From the FCC this morning:
		1. News Release: [FCC Looks to Open the Door to New Wireless Microphone Technologies | Federal Communications Commission](https://www.fcc.gov/document/fcc-looks-open-door-new-wireless-microphone-technologies)
		2. FCC Notice of Proposed Rulemaking (FCC 21-46)., ET Docket No. 21-115; RM-11821
		3. <https://www.fcc.gov/document/fcc-looks-open-door-new-wireless-microphone-technologies-0>
		4. Or <https://mentor.ieee.org/802.18/dcn/21/18-21-0046-00-0000-fcc-nprm-new-wireless-microphone-technologies-fcc-21-46a1.docx> (40 seek comments)
		5. “Wireless Multi-Channel Audio System” (WMAS) in the US (FCC 21-46)
		6. Wireless Microphones are authorized 6875-6900 MHz and 7100-7125 MHz and more bands.
		7. **1W per microphone plus 1W per microphone channel = 2W in the air in the band per microphone**
		8. Digitally combining multiple microphone signals
		9. NPRM seeks public comment allowing WMAS shared with incumbents  under Part 74 licensed devices
		10. NPRM seeks public comment should permit WMAS to operate unlicensed under Part 15 rules
		11. WMAS on a licensed basis in frequency bands where wireless microphones already are currently authorized, including the TV bands, the 600 MHz duplex gap, and in portions of the 900 MHz, 1.4 GHz, and 7 GHz bands
		12. FCC not intend to impact  incumbents of the bands
		13. WMAS is permitted in EUROPE under ETSI
		14. All – please review the FCC wireless mic action and is there anything .18 should review further or act upon?
7. Chair presents slide 18, **Actions required.**
	* VC – get 2 question poll out, via email. (done-after the meeting)
	* Lead to send out call-in info to table of frequency bands ad hoc team .18 and .19. (done-after the meeting)
	* All – if you have any actionable possibilities to update/improve/etc. our external influence on regulatory bodies, as part of the IEEE 802 restricting, please pass along to the chair. \
	* All – please review the FCC wireless mic action and is there anything .18 should review further or act upon?
	* VC - to email members to verify affiliations, then use MyProject for any updates. (working on details).
	* All – ongoing – bring to RR-TAG info they hear, e.g. different country consultations, on the WRC-23 AIs we are interested in.
8. Chair presents slide 19 Any Other Business
	1. none heard
9. Chair presents slide 20, Adjourn.
	1. Next “weekly” teleconference (sched’d to 02sep21): 29apr21–*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 15:35et
	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
10. Attendance

Voting members:

Auluck Vijay Self

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

Lynch Michael MJ Lynch & Associates, LLC.

Nikolich Paul Self, HPE, Huawei, Wyebot, UNH BCoE, YAS BBV, Origin Wireless

Petrick Al Skyworks

Rolfe Benjamin Blind Creek Associates

Stanley Dorothy Hewlett Packard Enterprise

Yaghoobi Hassan Intel Corporation

Yucek Tevfik Qualcomm

Non-Voting (Nearly Voters, Aspirant Members, Observers & Other Attendees)

Hamilton Mark Ruckus/CommScope

Pirhonen Riku NXP Semicondustors