IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 09sep21 |
| Name | Affiliation | Address | Email |
|  |  |  |  |
| Author and Officer presiding:  |
| Jay Holcomb, Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | jholcomb@ieee.org |

Co-Vice-chairs 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, 09sep21

1. Chair calls the meeting to order at 15:02 et
2. Chair presents slides 2 – 6 of 802.18-21/0104r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
3. Chair presents slides 7, the agenda:
	1. Call to Order
		1. Attendance is not on IMAT (w/VC & webex)
		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, \_Al P\_
		2. Attendance & monitor chat window, Stuart K
	3. Approve agenda, last minutes & announcements.
	4. Discussion items
		1. EU Items
		2. Other Regions Items
		3. ITU-R Items
		4. FCC NPRM on 60GHz
		5. General Discussion Items
	5. Actions required.
		1.
		2. Anything new today
		3. ongoing: WRC-23 AI Viewpoints & Freq. table fill in
	6. AOB
	7. Adjourn
4. 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: Mike Lynch (MJLynch Assoc.)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes in document https://mentor.ieee.org/802.18/dcn/21/18-21-0100-00-0000-minutes-02sep21-rrtag-teleconference.docx 03-Sep-2021 12:20:26 ET, with editorial privilege for the 802.18 chair.

Moved by: Al Petrick (Skyworks)

Seconded by: Vijay Auluck (self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward**
		1. For **Sept 2021**, Wireless Interim Session will be electronic, with one ($50, $75, $125) registration fee for all groups.
			1. Dates are Friday 10sep21 to our .18 meeting on 23sep21. 802.18 will meet our normal Thursday’s, 16th and 23rd.
				1. On the 16th, overlaps with last 30 minutes of 802.11az and 802.11bh
			2. Looking at a wireless session opening meeting Friday 10sep21 at 0900et (similar to what was done at f2fs)
			3. Draft agenda for Sept 10th 802 Wireless Interim is here: <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0140-03-WCSG-2021-09-wireless-interim-opening-plenary-agenda.xlsx>
			4. From WCSC on 07July:  ~~$50 – 14jul-27aug;~~ $75 – 28aug-09sep; **$125 >09sep**;
			5. The September 2021 electronic wireless interim session registration is open:
			6. <http://802world.org/wireless/> REGISTRATION WEBSITE: <https://cvent.me/NxZeZx>
			7. Note: As announced on .18 list server 12Aug21 and now with the updated WG P&P approved by EC (29th):
				1. A credited interim session (an interim session with attendance credit) is one that has been declared by the Working Group Chair or Technical Advisory Group Chair.
			8. 802.18 will be taking attendance using IMAT and it will count for voting membership participation credit.
				1. Like previous wireless interims, 75% is needed, need both calls.
		2. For **Nov 2021** Plenary – Vancouver – was addressed at the EC call on 07Sep21, Tuesday
			1. Straw poll-Vancouver: Will you attend the 2021 November IEEE 802 Plenary if held in-person at the Hyatt Regency Vancouver, in Vancouver, Canada Nov 14-19, 2021?
			2. Yes No Total response
				1. 802.1 17 -- 24 -- 85 -- (23 abstain/21 no response – July)
				2. 802.3 60 -- 123 -- 183
				3. 802.11 80 -- 18 -- 271 -- (7 abstain)
				4. 802.15 7 -- 26 -- 33 -- (29/42- July)
				5. 802.18 12 -- 15 -- 27
				6. 802.19 11 -- 18 -- 29
			3. And Tuesday at the EC call, the Nov 2021 Plenary moved to electronic/virtual.
			4. Also approved was the $50 / $75 / $125 meeting fee like we have been doing.
		3. For **Jan 2022** Wireless Interim – Panama
			1. WCSC Sept. call, the Jan 2022 Wireless Interim will be electronic/virtual.
			2. Also approved was the $50 / $75 / $125 meeting fee like coming up at the Sept. Wireless Interim
1. Chair presents slides 11 - 12, **EU items to share**
	1. General EU info: [<ojeu>](https://eur-lex.europa.eu/oj/direct-access.html) [<HStds>](https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/) <https://www.etsi.org/deliver/etsi_en/>
		1. Remember – BRAN documents can be found in the 802.11 private area documents (daily refresh)
	2. **ETSI – ERM** [**<TG-UWB>**](https://portal.etsi.org/tb.aspx?tbid=729&SubTB=729) **next call, meeting #59, \_(some focused calls in sept.)\_**
		1. Anything to share today? not today.
		2. 15jul: Working on new SR doc to extend UWB to 12.4 GHz, (tbd), much broader, up to 4 GHz OBW (tbd).
	3. **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meeting #111 27sep-01oct21;**

many ad hocs/calls; 01,02,06,07,08,09,10,21sep21

* + 1. EN 301 598 – TVWS – approved and next is EC assessment. then to ENAP and heading for the OJEU.
		2. EN 301 893 5 GHz - had 2 calls, cleaning up the standards. Working to conclude in meeting #112 in Dec.
		3. EN 303 687 6 GHz - have had 3 ad hoc meetings, 1 was on client-to-client communications with some values still being discussed. 2 were on NB FH and discussions continue.
		4. EN 303 753, 1 of the 60GHz stds has a call today/10th and then #2 is 21sep21
			1. EN 303 722 another 60GHz standard is waiting on ENAP.
			2. (not discussed though: EN 302 567 – another 60GHz (.11ad and .11ay) has passed 2nd ENAP, it is now an approved standard, next is to EC to approve for the OJEU.)
		5. Next plenary starts on 27sept. Looking at 4 – 90day, sessions each day.
	1. **CEPT – ECC** [<SE19>](https://cept.org/ecc/groups/ecc/wg-se/se-19/client/introduction/) **next call #88 30Sep-01Oct21**
		1. Anything to share today? not today.
		2. 15jul: Some looking at UWB and fixed services interference mitigation. Sweden is pushing the issue, very political discussion.
	2. **CEPT–ECC** [<SE24>](https://cept.org/ecc/groups/ecc/wg-se/se-24/client/introduction/) **next \_tbd\_ meeting, #M105 10-12Jan22**
		1. Anything to share today? not today.
		2. 02sep: Looking at UWB radiodetermination applications in 116 – 260GHz for vehicular use.
		3. 15jul: SE-24-UWB working on new regulations by end of year for >6GHz. Includes items, fixed outdoor, okay in vehicles, higher power (-31.2dBm/MHz indoor), etc. See ECC report 327. This could be significant changes. More to come.
	3. **CEPT – ECC** [<SE45>](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next call #14 28-29Oct21**
		1. Anything to share today? not today.
		2. **15jul:** The next call is about OOBE at 5935 MHz
	4. **CEPT – ECC** [<FM57>](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next call #16 14-15Sep21**
		1. Anything to share today? not today.
	5. nice site: CEPT 6 GHz status across the countries: <https://docdb.cept.org/implementation/16737>
1. Chair presents slides 13-14, **Other regions (outside EU-Stds and USA), items to share**
	1. **Malaysia MCMC has recently begun a public consultation that seeks public view on the possibility of allocating 6 GHz spectrum to unlicensed use.**
		1. Deadline for submitting comments is 5:00pm Selangor Darul Ehsan local time, October 11, 2021. (23sept out of .18)
		2. For details, you would refer to the 15-page document at:
		3. <https://www.mcmc.gov.my/skmmgovmy/media/General/pdf/PC_WiFi.pdf>
		4. Q1) MCMC seeks your views and comments on the demand for spectrum for Wi-Fi in the 6 GHz frequency band.
		5. Q2) MCMC seeks your views and comments on the emerging technologies utilizing the 6 GHz frequency band.
		6. Q3) MCMC seeks your views and comments on the frequency range within the 6 GHz frequency band that could be considered for Wi-Fi under the Class Assignment in Malaysia. Should MCMC consider allowing Wi-Fi to operate in the entire 1200 MHz (5925 MHz to 7125 MHz frequency band) or only in the 500 MHz (5925 MHz to 6425 MHz frequency band)?
		7. Q4) MCMC seeks your views and comments on: i. the coexistence between Wi-Fi and incumbent services (i.e. fixed service and fixed-satellite service); and ii. the potential interference mitigation between these services.
			1. note: Refer to Table 1 of the document on the status of incumbents in this frequency band of interest.
		8. Q5) MCMC seeks your views and comments on the potential technical and operational conditions to be imposed if the 6 GHz frequency band is introduced for Wi-Fi under the Class Assignment. Should part of the frequency band be limited to indoor operation? Should standard power devices operating under the Automatic Frequency Coordination (AFC) system be adopted in Malaysia?
			1. note: Refer to Table 2 of the document on the existing conditions of WLAN and SRD.
		9. Q6) What other key issues need to be considered in introducing Wi-Fi in the 6 GHz frequency range?
		10. Consultation is in mentor: <https://mentor.ieee.org/802.18/dcn/21/18-21-0103-00-0000-malaysia-mcmc-consultation-wlan-in-the-6ghz-band.docx>
	2. **Canada ISED is seeking comments on a new public consultation, entitled "Consultation on New Access Licensing Framework, Changes to Subordinate Licensing and White Space to Support Rural and Remote Deployment":** <https://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11717.html>
		1. In summary:
		2. [1] ISED is proposing a new access licensing framework, called Access Licensing, that would allow for greater access to spectrum in rural and remote areas. The initial bands for consideration are the 800 MHz band.
		3. [2] ISED is proposing to update a few existing White Space policies, including a proposal of cloud-based database, the use of TV channels 3 and 4 (60~72 MHz) by all types of white space devices, and a proposal to encourage the development and deployment of white space devices systems by phasing out RRBS (rural remote broadband systems).
		4. There are 49 questions in total. The consultation deadline is October 12, 2021. The closing date for reply comments is November 24, 2021.
	3. Anything else to share today? not today
2. Chair presents slides 16-17, **ITU-R items to share**
	1. Anything else to share? not today
	2. **WRC-23 agenda items, the list is on the ITU-R website at:**
		1. <https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/wrc-23-studies.aspx> (updated 26Aug20)
			1. <https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0041PDFE.pdf>
			2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0107-01-0000-res-811-wrc-19-wrc-23-agenda-items.docx>
	3. **IEEE 802 viewpoints on WRC-23 agenda items.**
		1. Doc for viewpoints updated (actions items in notes on this slide in agenda): <https://mentor.ieee.org/802.18/dcn/21/18-21-0039-01-0000-ieee-802-viewpoints-on-wrc-23-agenda-items.pptx>
		2. At Sept Wireless Interim, will review actions noted at the July Plenary.
		3. Reference:
			1. 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. For miscellaneous links for ITU-R, SGs, WPs and calendars, see back up slides later.
	5. **Liaison from ITU-R WP5A re: M.2121 ITS, see** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0059-00-0000-request-for-input-itu-r-m-2121-its.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0059-00-0000-request-for-input-itu-r-m-2121-its.docx)
		1. WP 5A next \_\_meeting is 15-26nov21 (probably upload to WP5A 02nov21; out of .18 then 15oct for EC 10 day)
		2. Document 59 is assigned to TGbd for consideration, as the document relates to ITS topics.
	6. **Liaison from ITU-R WP5A re: M.1801-2, see** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0058-00-0000-request-for-input-itu-r-m-1801-2.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0058-00-0000-request-for-input-itu-r-m-1801-2.docx)
	7. **Liaison from ITU-R WP5A re: M.1450-5, see** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0057-00-0000-request-for-input-itu-r-m-1450-5.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0057-00-0000-request-for-input-itu-r-m-1450-5.docx)
		1. WP 5A next \_\_meeting is 15-26nov21
		2. Documents 57 and 58 are assigned to the .11 ITU Ad hoc group for processing. ad hoc has met on these.
	8. **Liaison from ITU-R WP 1A re: Light Communications, see** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0080-00-0000-request-for-information-itu-r-wp-1a.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0080-00-0000-request-for-information-itu-r-wp-1a.docx)
		1. WP 1A next e-meeting is 03-12nov21 (probably upload to WP5A 20oct21; out of .18 then 08oct for EC 10 day)
		2. Reviewing the document to develop recommended modifications to reflect the work underway with P802.11bb and 802.15.7a/802.15.13.
3. Chair presents slides 18, **FCC NPRM on 60GHz on Radar Sensing Technology**
	1. Allowing Expanded Flexibility and Opportunities for Radar Operation in the 57-64 GHz band
		1. Notice of Proposed Rulemaking – ET Docket No. 21-264
	2. Abstract in notes on this slide in the agenda.
	3. Proceeding: [https://www.fcc.gov/ecfs/search/filings?q=((proceedings.name:((21%5C-264\*))%20OR%20proceedings.description:((21%5C-264\*))))&sort=date\_disseminated,DESC](https://www.fcc.gov/ecfs/search/filings?q=((proceedings.name:((21%5C-264*))%20OR%20proceedings.description:((21%5C-264*))))&sort=date_disseminated,DESC)
	4. **FR Document:** [2021-16637](https://urldefense.com/v3/__https%3A/www.federalregister.gov/documents/2021/08/19/2021-16637/fcc-seeks-to-enable-state-of-the-art-radar-sensors-in-60-ghz-band?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!kCOcNUzUR0qsvQP1rN9qBeWaPxLRXryhg4U02CqEFT8zp60I7zdtCWeOkNoMDxVRbg$); **Citation:** 86 FR 46661; [PDF](https://urldefense.com/v3/__https%3A/www.govinfo.gov/content/pkg/FR-2021-08-19/pdf/2021-16637.pdf?utm_source=federalregister.gov&utm_medium=email&utm_campaign=subscription*mailing*list__;Kys!!F7jv3iA!kCOcNUzUR0qsvQP1rN9qBeWaPxLRXryhg4U02CqEFT8zp60I7zdtCWeOkNrPJarxaw$)Pages 46661-46672 *(12 pages)*; [Permalink](https://urldefense.com/v3/__https%3A/www.federalregister.gov/d/2021-16637?utm_medium=email&utm_campaign=subscription*mailing*list&utm_source=federalregister.gov__;Kys!!F7jv3iA!kCOcNUzUR0qsvQP1rN9qBeWaPxLRXryhg4U02CqEFT8zp60I7zdtCWeOkNp91K_sRw$)
	5. It is on Mentor: r02 is the July OET versions (r01 is the later Federal Register version). Have not seen in Errata on the OET version: <https://mentor.ieee.org/802.18/dcn/21/18-21-0079-02-0000-fcc-nprm-allowing-expanded-flexibility-for-radar-operation-in-57-64-ghz-band.docx>
	6. .11bf, is looking at the NPRM, and .11 CoEx, had a presentation in July plenary, <https://mentor.ieee.org/802.11/dcn/21/11-21-1089-00-coex-coexistence-between-radars-and-communication-systems-in-the-60ghz-band-u-s-update.pptx> and had some concerns on the proposed rules.
	7. 802.15.3 might have interest.
	8. **Comments due 20Sept21 and reply comments due 18Oct21**
		1. Comments would have been best to be approved in .18 on **02Sep (last week),** for a 10-day EC ballot.
		2. Nothing has come in, in time for comments though some have stepped forward to work on reply comments, of course will need to see the comments filed to respond to.
		3. With reply comments due Monday 18oct, .18 would be best to approve on 30sept21. Some risk if after that.
4. Chair presents slide 19, **General Discussion Items**
	1. none
5. Chair presents slide 20, **General Discussion Items – ongoing - MSGs 6 GHz**
	1. The WInnforum “6 GHz Committee”, all groups meet every 2 weeks except interference-weekly (168 people)
		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.
		3. New org: 2 (now) focus areas:
			1. ) AFC Functional Specification -WG – includes: Interference-TG, Incumbent Info-TG, security (new) and Protocols 3GPP-TG
			2. 2) AFC Test and Certification-WG
		4. Anything to share today? not today
	2. 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. Anything to share today? not today
6. Chair presents slide 21, **General Discussion Items – ongoing - Table of IEEE 802 Stds Frequency Ranges**
	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 is going, always look for latest:**
		2. <https://mentor.ieee.org/802.18/dcn/21/18-21-0036-07-0000-frequency-table-template.xlsx>
	4. **From ad hoc call on 27jul21**
		1. Reviewed the draft of rev07
			1. In instructions:
				1. Clarified Standard-Year and put in an example.
				2. Clarified PHY Amendment (Date of Initial Approval) with an example and to not leave blank, copy over the standard if there is no amendment.
				3. Clarified PHY Name to start with the Acronym, then the name.
			2. In notes: Added a general note to only consider Active standards, not in active-withdrawn standards.
	5. The activity is entering the phase to fill in the sheet now, so more intense and time consuming.
	6. The next meeting will be 28sep21. (call-in in backup slides here)
	7. Will share the spreadsheet during the Wireless Interim opening on 10sept21.
	8. **Will share the spreadsheet during the Wireless Interim opening on 10sept21.**
7. Chair presents slide 22, **Actions Required**
	* Promote support of the FCC NPRM 60GHz reply comments and timeline needed.
	* Add to agenda next week, including are ad hocs needed, and set them up.
		1. Generally, we start with ad hocs tueday’s at 1500et, and maybe more days, tbd.

ongoing:

* + For IEEE 802 viewpoints on WRC-23 AIs, reach out to those identified, looking for input on the viewpoints.
	1. **Proactive Spectrum Sharing – Contact Rich Kennedy if you can help or have inputs. or want to join the task force.**
1. Chair presents slide 23 Any Other Business
	1. none heard
2. Chair presents slide 24, Adjourn.
	1. **Next “weekly” teleconference (sched’d to 13jan22): 30sep –*15:00–<15:55* et**
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-19-0000-teleconference-call-in-info.pptx>
		2. Also, see back up slide in this agenda.
		3. **note: new call-in starting 09sep21, see back up slides in agenda**
		4. 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 802.18’s: [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 15:46et
	4. **The next IEEE 802.18 (wireless) interim will be electronic in Sept 2021, starts tomorrow (10th)**
	5. **The next IEEE 802 plenary will be electronic in November 2021**
	6. **The IEEE 802.18 (wireless) interim will be electronic in Jan 2022**
	7. Thank You
3. Attendance

|  |  |  |
| --- | --- | --- |
|  | **Voting Attendees:** |  |
| 1 | **Au** | Edward (Kwok Shum) | Huawei Technologies Co., Ltd |
| 2 | **Auluck** | Vijay | Self |
| 3 | **Boldy** | David | Broadcom Corporation |
| 4 | **Hiertz** | Guido | Ericsson AB |
| 5 | **Holcomb** | Jay | Itron Inc. |
| 6 | **Kain** | Carl | USDOT, Noblis, Inc. |
| 7 | **Kenney** | John | TOYOTA InfoTechnology Center U.S.A. |
| 8 | **Kerry** | Stuart | OK‐Brit, Self |
| 9 | **Levy** | Joseph | InterDigital, Inc. |
| 10 | **Lynch** | Michael | MJ Lynch & Associates, LLC. |
| 11 | **Nikolich** | Paul | Self, HPE,  Huawei, Wyebot, UNH BCoE, YAS BBV, Origin Wireless  |
| 12 | **Petrick** | Al | Skyworks Solutions Inc. |
| 13 | **Pirhonen** | Riku | NXP Semiconductors |
| 14 | **Rolfe** | Benjamin | Blind Creek Associates |
| 15 | **Stanley** | Dorothy | Hewlett Packard Enterprise |
| 16 | **Yaghoobi** | Hassan | Intel Corporation |
| 17 | **Yucek** | Tevfik | Qualcomm |
|  |  |  |  |
|  | **Non-Voting Attendees:** |  |
| 1 | **Aldana** | Carlos | Facebook |
| 2 | **da Silva** | Claudio | Facebook |
| 3 | **Fang** | Yonggang | MediaTek |
| 4 | **Haasz** | Jodi | IEEE SA |
| 5 | **Hamilton** | Mark | Ruckus/CommScope |
| 6 | **Jeffries** | Timothy | FutureWei Technologies, Inc. |