IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 05-12Nov20 |
| Name | Affiliation | Address | Phone | Email |
|  |  |  |  |  |
| Author and Officer presiding:  |
| Jay Holcomb, Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | +1(509) 891-3281 | jholcomb@ieee.org |

Abstract

Minutes of the IEEE 802 RR-TAG electronic Plenary.

These are the Minutes of the IEEE 802 RR-TAG Plenary, Thursday, 05-12Nov20

Chair calls the meeting to order at 15:03 ET, Tuesday 05Nov20.

1. Chair presents slides 2 – 6 of 802.18-20/0147r01, 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. IMAT Attendance server is open
		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, Peter E.
		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 FNPRM 5.9 GHz
		5. FCC 6 GHz
		6. General Discussion Items
	5. Actions required
		1. FCC FNPRM 5.9 GHz FNPM inputs
		2. Ongoing:APG contribution input
		3. Anything new today
	6. AOB and Recess/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: Vijay Auluck (Self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Plenary 16-23 July 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0103-00-0000-minutes-electronic-plenary-16-23jul2020-rr-tag-yul.docx> 26-Jul-2020 22:03:40 ET, with editorial privilege for the 802.18 chair.

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

Seconded by: Edward Au (Huawei)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward**
		1. For November 2020 is electronic from 30Oct20 to 13Nov20.
			1. This will allow 802.18 to have our 2 Thursday meetings, like the July Plenary.
			2. For .18 we will meet 1hr the 1st week(1500-1600et), 05Nov20.
			3. And 2hr the 2nd week(1500-1700et), 12Nov20
			4. The 1hr/2hr days have been flipped from earlier discussions. Call-in in backup slides
			5. As RR-TAG has done in plenaries, it will take attending both for attendance credit.
			6. IMAT is setup and will be used for voting membership attendance credit.
			7. Note: be sure your affiliation(s) are up to date, e.g. in my Project and when you sign in.
		2. For **January** **2021** Wireless Interim (Irvine) the Wireless Chairs met 30Sep20 and have cancelled the face-to-face meeting in Irvine, CA. This leaves open for the WGs to decide on their own if they do an electronic Interim or not.
		3. For **March 2021** there was a presentation from F2F on the EC 06Oct20 call of what all the Hyatt Denver is doing (w/450 guess on attendees) and from an SME on the international hotel industry. At this time the EC will take it up again in their Dec 2020 call, though could wait till Jan21 call, which seemed to be the lean.
			1. At this point the 2021 Electronic Media of IEEE 802 standards Edition has been setup to deliver by electronic download if needed.
		4. For **May 2021** at the Hilton in Panama City, Panama, earlier EC straw poll was to continue with the contract with clear cancellation policies. With that, the IEEE has new language on cancellation policies, considering the pandemic, so it is much clearer.
	2. **Motion:** The 802.18 Chair or Chair designee is directed to conduct, as necessary, teleconferences on Thursdays at 15:00 ET through 20 May 2021

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

Seconded by: Vijay Auluck (Self)

Discussion? None

Vote: Approved by unanimous consent

Motion passed, 21 voters with 29 attendees

1. Chair presents slides 11 & 12, **EU items to share**
	1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next call/meeting #108, 7-11Dec20**
		1. Looking at meetings in 2021, preparing for in the ETSI HQs if possible, electronic likely.
		2. 5 & 6 GHz stds are progressing. Goal is to get into ENAP next year with the 5 GHz std.
		3. 6 GHz std, folks are anxious to finish up and get into ENAP soon.
		4. First 60 GHz std sent to ENAP.
		5. 2 more 60 GHz stds being worked on. CEPT calls then C2 and C3.
		6. **Suggested for all to review 802.11 Coex Agenda 11-20/1620 (latest) has many ETSI references.**
	2. All paths are heading to be done before RSC (EC votes included) 10Dec20, with final decisions. This is to make standards in the OJEU in April2021.
	3. Nice summary from 802.11 on status in CEPT on 6GHz:
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1755-00-coex-6ghz-update-cept.pptx>
		2. 802.11 Coex Agenda 11-20/1620 (latest) has many ETSI references
	4. Very informative >> DSA 6 GHz <https://youtu.be/KWoHMosFCZM>
		1. DSA slides are at: <http://dynamicspectrumalliance.org/wp-content/uploads/2020/11/5-Economic-and-Social-Impact-of-Unlicensed-Access-in-6-GHz-Band.pdf>
2. Chair presents slides 13, **Other regions (outside EU-Stds and USA), items to share**
	1. **Peru had a consultation on 6GHz band for Wi-Fi, it closed on 03nov.**
		1. <https://cdn.www.gob.pe/uploads/document/file/1422105/Documento%20de%20Trabajo.pdf>
	2. **Chile has already adopted 5925 to 7125 MHz, for indoor only.**
		1. <https://www.bcn.cl/leychile/navegar?idNorma=1109333&idParte=9841504&idVersion=&r_c=6>
	3. **Next week will plan on an APAC update.**
3. Chair presents slide 14 **ITU-R items to share**
	1. For [WP 5D](https://www.itu.int/en/ITU-R/study-groups/rsg5/rwp5d/Pages/default.aspx) next call: [Monday 2020-10-05 - Friday 2020-10-16](https://www.itu.int/events/eventdetails.asp?eventid=17587)
		1. 6 GHz is part of this, WRC-23 AI 1.2. And sharing studies due June 2021
		2. Will discuss next week (12Nov20)
	2. WRC-23 agenda items (pick this up before General Discussion items if time permits)
		1. With 18-20/0107, will spend some time to continue to ID the AIs of interest to IEEE 802, to form viewpoints.
		2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0107-00-0000-res-811-wrc-19-wrc-23-agenda-items.docx>
	3. **APG** –WRC-23 prep. Any feedback on 6GHz and 7GHz, 7025-7125MHz changes?
		1. **Contributions are welcomed** and next meeting in April 2021.
		2. IEEE 802 should consider a contribution to APG.
		3. All – consider and pass along some basic text for the start of a contribution to APG for their WRC-23 prep on the 6GHz band from our viewpoint to be considered.
4. Chair presents slides 15 and 16, **FCC FNPRM 5.9 GHz**
	* 1. The draft R&O did come out (28Oct20) as predicted.
			1. Proceeding: <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-138&sort=date_disseminated,DESC>
			2. November Agenda Item: <https://www.fcc.gov/document/modernizing-59-ghz-band-wi-fi-and-automotive-safety>
		2. The Draft R&O and FNPRM (117 pages) on Mentor:
			1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0144-01-0000-fcc-r-o-draft-revisiting-use-of-the-5-850-5-925-ghz-band.docx> 51 seek comments highlighter in rev01
		3. Points for discussion include, seemed more questions than answers in the end.
			1. Also, C-V2X brought out notably, but not till the end it was defined as rel 14 / 4G.
			2. Other points, Paragraph 38 reallocation of the 45MHz, indoor use of unlicensed and client to client operation.
			3. It was also mentioned how radiolocation systems should be protected. Class 2 permissive change if software upgrade works.
			4. Chair asks for pointers to topics for FNPRM to be provided now.
				1. FNPRM Comment period likely will be 30 days from when the R&O appears in the FR. Effective comment period probably is January.
		4. **So, we need to review further the next week or two and does IEEE 802 want to do comments on FNPRM depending on the points raised?**
			1. During 05Nov20 call, not as much interest as in the first call.

* + 1. **Question asked: Is it worth to re-iterate some of the points we said in previous filings/comments?**
			1. E.g. is there anything in the FNPRM that the FCC missed our points, ignored or took the wrong way?
		2. **What about suggesting additional spectrum for DSRC - ITS?**
			1. More caveats need to be considered here, plus and minus, so would need more discussion on how to present this. (it links to the FCC first seek comment).
			2. What about 60GHz, that 802.11bd has this? EU has this also. Mid-band is tougher.
		3. **Even with less interest shown, will continue to monitor the next few weeks in case someone steps up on what we could comment on.**
1. Chair presents slide 17, **FCC 6 GHz**
	1. **Any news on 1st circuit court of appeals?**
		1. As reported, they denied motions to the stay and denied motions to expedite, so now there is basically no more clock to get to done. So now this extends to get it finished to months +.
	2. **FCC R&O 6 GHz – MSG**
		1. **The one-Multi-stake holder group (MSG) to discuss 6 GHz and what happens in the band.**
		2. The MSG site is not public but open to any interested party that wants to join in, *you do have to register and apply.* Was renamed to the “6GHz M.S. Committee”.
		3. [https://www.wirelessinnovation.org/6ghz-multistakeholder-committee](https://urldefense.com/v3/__https%3A/www.wirelessinnovation.org/6ghz-multistakeholder-committee__;!!F7jv3iA!miq8gKDh5u9EeBEqnJQ0xEKNYPoCPGlGj45FX_qjQNRwSaW1Br7N6myjjcdbTNciew$)
		4. Work Streams:
			1. Work stream 1 - interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO)
			2. Work stream 2 - correct incumbent data (ULS) (Commsearch, APCO)
			3. Work stream 3 - AFC and how it provides protection, etc. (Charter, Google, UTC)
		5. Overall Co-chairs: NPSTC(APCO), UTC, WFA, WISPA
		6. **Last MSG meeting – 30Oct20 (last week)**
			1. Anything on a 4th work stream?
			2. Anything on a 5th work stream?
		7. **Will discuss next week, 12Nov20.**
		8. Next MSG meeting - \_\_\_\_\_\_\_\_\_\_
2. Chair presents slides 18, **General discussion items**
	1. None today
3. Chair presents slide 19, **Actions / AOB / Recess**
	1. **Actions required:**
		1. 5.9 GHz NPMR, is there anything we could comment on in the FNPRM?
		2. Reduce IMAT timing to exact so no overlap with others. Done.
	2. **AOB before recess to next Thursday, 12Nov20?**
		1. None heard
	3. Initial present on-line today: \_33\_\_ and voters on-line: \_25\_\_
	4. **Recessed at 16:01 until Thursday 12Nov20, 15:00et**
4. Chair presents slide 20, **2nd - Thursday (12Nov20) Agenda**
	1. **Reminder we are still under all IEEE policies as shown last Thursday (05Nov20)**
		1. IMAT-Attendance server is open **and will use Webex export log also.**
		2. Remember to state your name, affiliation, employer and/or clients first time you speak.
		3. Someone to take a few notes: \_\_\_\_
		4. **Attendance and request queue in chat window, Stuart K**
	2. **Items from last week or new**
		1. EU Items
		2. Other Regions Items (APAC update)
		3. ITU-R Items (WP 5D update and WRC-23 AIs)
		4. FCC FNPRM on 5.9GHz
		5. FCC 6GHz MSG update
		6. General Discussion Items
	3. **Actions Required**
		1. Anything new today
	4. **AOB**
	5. **Adjourn**
5. Chair presents slides 21 & 22, **EU items to share**
	1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next call/meeting #108, 7-11Dec20**
		1. nothing to share today
	2. **ETSI** [<ERM>](https://portal.etsi.org/tb.aspx?tbid=286&SubTB=286) **next meeting #72, 03-06Nov20 (last week)**
		1. nothing to share today
	* **All paths are heading to be done before RSC (EC votes included) 10Dec20, with final decisions. This is to make standards in the OJEU in April 2021.**
	1. **Nice summary from 802.11 on status in CEPT on 6GHz:**
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1755-00-coex-6ghz-update-cept.pptx>
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	3. **CEPT – ECC** [**<WGFM>**](https://cept.org/ecc/groups/ecc/wg-fm/client/introduction/) **next meeting #98, 8-12Feb21**
6. Chair presents slides 23, **Other regions (outside EU-Stds and USA), items to share**
	1. **APAC update.**
7. Chair presents slide 24, **ITU-R items to share**
	1. For [WP 5D](https://www.itu.int/en/ITU-R/study-groups/rsg5/rwp5d/Pages/default.aspx) next call: [Monday 2020-10-05 - Friday 2020-10-16](https://www.itu.int/events/eventdetails.asp?eventid=17587)
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		2. IEEE 802 should consider a contribution to APG.
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8. Chair presents slides 25, **FCC FNPRM 5.9 GHz**
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	1. So, we need to review further the next week or two and does IEEE 802 want to do comments on FNPRM depending on the points raised?
		1. During 05Nov20 call, not as much interest as in the first call.
	2. **Question asked: Is it worth to re-iterate any points from our previous comments?**
		1. E.g. is there anything in the FNPRM that the FCC ignored or took the wrong way?
	3. **What about suggesting additional spectrum for DSRC - ITS?**
		1. More caveats need to be considered here, plus and minus, so would need more discussion on how to present this. (it links to the FCC first seek comment).
		2. What about 60GHz, that 802.11bd has this? EU has this also. Mid-band is tougher.
	4. What are next steps, any interest to consider comments?
9. Chair presents slide 26, **FCC 6 GHz**
	1. **Any news on 1st circuit court of appeals?**
		1. As reported, they denied motions to the stay and denied motions to expedite, so now there is basically no more clock to get to done. So now this extends to get it finished to months +.
	2. **FCC R&O 6 GHz – MSG**
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		3. [https://www.wirelessinnovation.org/6ghz-multistakeholder-committee](https://urldefense.com/v3/__https%3A/www.wirelessinnovation.org/6ghz-multistakeholder-committee__;!!F7jv3iA!miq8gKDh5u9EeBEqnJQ0xEKNYPoCPGlGj45FX_qjQNRwSaW1Br7N6myjjcdbTNciew$)
		4. Work Streams:
			1. Work stream 1 - interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO)
			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. Work Stream 4 – Contention-based protocol
			5. Work Stream 5 – Outside/Field testing
		5. Overall Co-chairs: NPSTC, UTC, WFA, WISPA
			1. **Last MSG meeting – 30Oct20**
		6. Next MSG meeting - \_\_\_\_\_\_\_\_\_\_
10. Chair presents slides 27 & 28, **General discussion items – fyi**
	1.
	2.
	3. **802.18 activity since July Plenary – fyi only**
		1. Approvals:
			1. FCC 70/80/90GHz NPRM comments
			2. ITU-R WP 1A THz communications
			3. ITU-R WP 5A-M.1450 updates
			4. ITU-R WP 5A-M.1801 updates
			5. FCC 5.9GHz NPRM ex parte
		2. Other discussions:
			1. Started WRC-23 AIs
			2. FCC 6GHz and ongoing Multi-Stake Holders meetings
			3. FCC Commissioner changes coming
			4. Saudi Arabia consultation spectrum outlook
			5. APT WRC-23 Prep Group
			6. Mexico consultation on 2.4 GHz
			7. UAE TRA consultation on 5.9GHz and SRDs
			8. ANSI public comment on US Standards
			9. FCC PN on 911/Wi-Fi non-telecommunications service
			10. Korea (4GHz), Japan 5-year plan, Brazil
			11. FCC R&O / FNPRM on 5.9 GHz (DSRC)
11. Chair presents slide 29, **Actions required**
* All – what are points and topics for possible FCC FNPRM on 5.9GHz
* All – consider and pass along some basic text for the start of a contribution to APG for their WRC-23 prep on the 6GHz band from our viewpoint to be considered.
1. Chair presents slide 30 Any Other Business
	1.
	2.
	3.
2. Chair presents slide 31, Adjourn
	1. **Next weekly teleconference (scheduled to 07Jan21): 19Nov 20–*15:00–<15:55* ET**
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-16-0000-teleconference-call-in-info.pptx> (*or latest)* ***(new – weekly call in starts 30july20)***
			1. Or back up slide in the 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:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_41et
	4. **The next face to face meeting is tbd.**
	5. **The next IEEE 802 plenary will be electronic from 30Oct20 to 13Nov20.**
	6. **Thank You**