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:  |
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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:**
		* 5.9 GHz NPMR, is there anything we could comment on in the FNPRM?

⌧ Reduce IMAT timing to exact so no overlap with others. Done.

* 1. **AOB before recess to next Thursday, 12Nov20?**
		1. None heard
	2. Initial present on-line today: \_33\_\_ and voters on-line: \_25\_\_
	3. **Recessed at 16:01 until Thursday 12Nov20, 15:00et**
1. Chair presents slide 20, **2nd - Thursday (12Nov20) Agenda**
	1. Chair calls the meeting to order at 15:02 ET, Tuesday 05Nov20.
	2. **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: Peter E.
		4. **Attendance and request queue in chat window, Stuart K**
	3. **Items from last week or new**
		1. EU Items
		2. Other Regions Items (Mexico, Australia, 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 (straw polls)
	4. **Actions Required**
		1. Anything new today
	5. **AOB**
	6. **Adjourn**
2. 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. Have planned for 6 GHz work, 20 and 30 Nov calls, getting ready for meeting #108.
		2. Bran had one resolution meeting regarding "meeting minutes" since last week.
	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>
		2. 802.11 Coex Agenda 11-20/1620 (latest) has many ETSI references
	2. **Very informative >> DSA 6 GHz** [**https://youtu.be/KWoHMosFCZM**](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. Videos are posted now and can hear/see the details and the notable discussions.
			1. <http://dynamicspectrumalliance.org/global-summit/>
3. Chair presents slides 23, **Other regions (outside EU-Stds and USA), items to share**
	1. **Mexico IFT** announced a public consultation concerning frequency band 5925 - 7125 MHz for unlicensed use such as for Wi-Fi 6E. The Spanish announcement is <http://www.ift.org.mx/industria/consultas-publicas/consulta-publica-de-integracion-del-cuestionario-sobre-la-banda-de-frecuencias-5925-7125-mhz>
		1. Any interested parties can submit comments, opinions or suggestions to IFT at the address planeacion.espectro@ift.org.mx;
		2. Duración Del 06 de Noviembre de 2020 al 18 de Diciembre de 2020(30 días hábiles)
	2. **Australia ACMA** is planning an update to their Radiocommunications standard for short range devices with regards to AS/NZS 4268 and its international alternative SRD standards. ACMA proposes the allowance of new test methods from EN and FCC standards <https://www.acma.gov.au/consultations/2020-11/amendment-short-range-devices-standard-consultation-312020>
		* 1. The public consultation is open until 18th December 2020. Any interested parties may submit comments, opinions or suggestions to ACMA [here](https://www.acma.gov.au/form/consultation-test-beta?source_entity_type=node&source_entity_id=2994) before this date.
	3. APAC update
		1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0149-01-0000-apac-update-november-2020.pptx>
4. 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)
		1. 6 GHz is part of this, WRC-23 AI 1.2. Sharing studies due June 2021
	2. Focusing on the topics related to Action Item 1.2.
		1. The Working Party 5D was busy in preparing reply to the liaisons from the following working parties: 7B, 5B, 5C, 3K, 3M, and 7C. Among which, the reply to liaison to 7C is related to 10 GHz EESS and 6 GHz passive EESS). In particular, WP5D notes to the WP7C that the decision whether or not to identify the frequency bands 6425 MHz-7025 MHz and 7025-7125 MHz for IMT will only be taken at WRC-23, and that the basis for this decision will be the sharing and compatibility studies between IMT and services to which the frequency bands are allocated on a primary basis, which is not the case for EESS (passive). WP5D would like to concur with WP7C that any study done in WP7C between IMT and EESS (passive) in these bands should be done outside the scope of AI 1.2
			1. In addition, WP5D discussed on a contribution related to interference scenarios for studies between IMT and FSS, and the objectives of the technical studies. For example, for 6425 MHz - 7025 MHz, they are considering a few interference scenarios e.g., in-band and adjacent band aggregate interference from IMT BS/UE and the FSS space station receivers., and another example scenario is the interference from FSS earth stations into IMT BS/UE.
	3. WRC-23 agenda items (pick this up before General Discussion items)
		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. Did finish through the list of WRC-23 Ais and ID’d the following three to pursue further for IEEE 802 viewpoints:
			1. 1.1 4 800-4 990 MHz and Resolution 223. Connection is moving all of ITS (5.9GHz) to 4900 MHz band. keep an eye from that point of view.
			2. 1.2 3 300-3 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 band 470-960 MHz in Region 1 and consider possible regulatory actions in the frequency band 470-694 MHz in Region 1 on the basis of the review in accordance with Resolution **235.**
			4. **10** to recommend to the Council items for inclusion in the agenda for the next WRC, and items for the preliminary agenda of future conferences, in accordance with Article 7 of the Convention and Resolution **804**
		4. Then need to find more info on the following.
			1. **5** to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the Convention.
			2. **6** to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference.
			3. **9** to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention.
	4. **APT** –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 APT.
		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. Need to get IEEE 802 recognized by APT as an organization for comments.
		5. Could we attend virtually, may have a better impact on our comments?
5. Chair presents slides 25, **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/20/18-20-0144-00-0000-fcc-r-o-draft-revisiting-use-of-the-5-850-5-925-ghz-band.docx> 51 seek comments
	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. **Earlier question: 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?
		1. What are next steps, any interest to consider comments?
		2. Best is to wait for the ‘final’ R&O and FNPRM next week and see what is in it.
		3. DoT sent a [strong letter](https://ecfsapi.fcc.gov/file/1109637413744/2020.11.06%20DOT%20Letter%20to%20FCC%20Chairman%20re%20Comments%20on%20Safety%20Band%20Decision%20%28Signed%29.pdf) to the FCC and on the draft and FNPRM.
		4. It is in the preceding, link above.
6. 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**
		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) (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. **Last MSG meeting – 30Oct20**
			1. Anything on a 4th work stream? Contention-based protocol
				1. Meeting on 30th, discussed #4, did not complete. Moved to an off-line meeting. That meeting no conclusion yet, there are 2 sides. With no-consensus, work stream was not added.
			2. Anything on a 5th work stream? Outside/Field testing
				1. For work-stream #5 proposal, can add to work stream #1 work.
		6. Discussed AFC for 3GPP devices, the Winn Forum will stand it up, then take to WFA for AFC specs. (like a 1-page change doc, not a big difference)
		7. Next MSG meeting – 20Nov20 – tbd (Overall calls will be on Fridays)
7. Chair presents slides 27 & 28, **General discussion items – fyi**
	1. **Would like to run 2 straw polls:**
		1. When do you expect the next in person 802.18 session will be?
			1. A.- March 2021 3
			2. B.- May 2021 1
			3. C.- July 2021 12
			4. D.- September 2021 9
			5. E.- November 2021 4
			6. F.- 2022 or later 2
			7. No Answer 8
		2. Based upon your affiliation’s and other restrictions, as well as your personal comfort level, when is the earliest you expect to be able to attend an 802.x face-to-face meeting, with info as of today?
			1. A.- March 2021 7
			2. B.- May 2021 0
			3. C.- July 2021 12
			4. D.- September 2021 7
			5. E.- November 2021 4
			6. F.- 2022 or later 2
			7. No Answer 6
	2. **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)
8. Chair presents slide 29, **Actions required**
* All – what are points and topics for possible comments on FCC FNPRM on 5.9GHz?
* Chair – start up document with 3 + 2 WRC-23 agenda items IEEE 802 should consider viewpoints on.
* All – consider and pass along some basic text for the start of a contribution to APT for their WRC-23 prep on the 6GHz band from our viewpoint to be considered..

⌧ Chair: put in his calendar to send Call-in info on the Wednesday before each plenary or interim call (already done for March and Jan (tbd)) Done

1. Chair presents slide 30 Any Other Business
	1. None heard
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 16:35et
	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**
3. **Attendance 5th 12th**

voting members

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Au** | Edward | Huawei Technologies Co., Ltd | **x** | **x** |
| **Auluck** | Vijay | Self | **x** | **x** |
| **Boldy** | David | Broadcom Corporation | **x** | **x** |
| **de Vegt** | Rolf | Qualcomm Incorporated | **x** | **x** |
| **Ecclesine** | Peter | Cisco Systems, Inc. | **x** | **x** |
| **Furuichi** | Sho | Sony Corporation | **x** | **x** |
| **Godfrey** | Tim | Electric Power Research Institute, Inc. (EPRI) |  | **x** |
| **Harrington** | Timothy | UWB Alliance |  | **x** |
| **Hiertz** | Guido | Ericsson AB | **x** | **x** |
| **Holcomb** | Jay | Itron Inc. | **x** | **x** |
| **Ikegami** | Tetsushi | Meiji University |  | **x** |
| **Jeffries** | Timothy | FutureWei Technologies, Inc. |  | **x** |
| **Jones** | Vincent Knowles IV | Qualcomm Incorporated | **x** | **x** |
| **Kain** | Carl | USDoT | **x** | **x** |
| **Kenney** | John | TOYOTA InfoTechnology Center U.S.A. | **x** | **x** |
| **Kerry** | Stuart | OK‐Brit, Self | **x** | **x** |
| **Kuerner** | Thomas | TU Braunschweig |  | **x** |
| **Lansford** | James | Qualcomm | **x** | **x** |
| **Lepp** | James | BlackBerry | **x** |  |
| **Levy** | Joseph | InterDigital | **x** | **x** |
| **Lynch** | Michael | MJ Lynch & Associates, LLC. | **x** | **x** |
| **Nikolich** | Paul | Self, HPE, Huawei, Itron, octoScope, Wyebot, UNH BCoE, YAS BBV, Origin Wireless  | **x** | **x** |
| **Palm** | Stephen | Broadcom Corporation | **x** | **x** |
| **Petranovich** | James | ViaSat, Inc. | **x** | **x** |
| **Rolfe** | Benjamin | Blind Creek Associates | **x** | **x** |
| **Salazar Cardozo** | Ruben E | Landis Gyr Group Worldwide |  | **x** |
| **Sand** | Stephan | German Aerospace Center (DLR) | **x** | **x** |
| **Sato** | Naotaka | Sony Corporation | **x** | **x** |
| **Schiessl** | Sebastian | u‐blox | **x** | **x** |
| **Sherlock** | Ian | Texas Instruments | **x** | **x** |
| **Stanley** | Dorothy | Hewlett Packard Enterprise | **x** | **x** |
| **Verso** | Billy | Qorvo | **x** | **x** |
| **Wang** | Lei | Huawei R&D USA | **x** | **x** |
| **Ward** | Lisa | Rohde & Schwarz |  | **x** |
| **Yaghoobi** | Hassan | Intel Corporation | **x** | **x** |

non-voting members

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Avrillon** | Matthieu | Luceor | **x** |  |
| **Haasz** | Jodi | IEEE-SA | **x** | **x** |
| **Madhavan** | Narendar | Ericsson | **x** |  |
| **Palmer** | Clark | Meteorcomm LLC | **x** |  |
| **Petrick** | Al | InterDigital (Jones-Petrick and Associates, LLC.) |  | **x** |
| **Pirhonen** | Riku | NXP Semicondustors | **x** | **x** |
| **Robert** | Joerg | University of Erlangen-Nuremberg | **x** | **x** |
| **Rosdahl** | Jonathan | Qualcomm | **x** |  |
| **Serang** | Daoud | CML Microcircuits |  | **x** |
| **Yucek** | Tevfik | Qualcomm | **x** | **x** |