IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 10Dec20 |
| Name | Affiliation | Address | Phone | Email |
|  |  |  |  |  |
| Author and Officer presiding:  |
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Abstract

Minutes of the IEEE 802 RR-TAG Teleconference.

These are the Minutes of the IEEE 802 RR-TAG Teleconference, Thursday, 10Dec20

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

1. Chair presents slides 2 – 6 of 802.18-20/0155r01, 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
	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. MSG 6 GHz & FCC
		5. Table of Frequency Bands – IEEE 802 Stds
		6. General Discussion Items
	5. Actions required
		1. Table of Frequency Bands
		2. WRC-23 IEEE 802 viewpoints
		3. 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 (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 Teleconference 03 December 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0153-00-0000-minutes-03dec20-rrtag-teleconference.docx> 04-Dec-2020 11:57:30 ET, with editorial privilege for the 802.18 chair

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

Seconded by: Vijay Auluck (Self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward**
		1. 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. The LMSC (EC) rules are being reviewed for possible participation credit.
			1. 802.11 - 11-15jan21
			2. 802.15 - 15-21jan21
			3. 802.19 - not meeting
		2. For **March 2021** the EC at their monthly telecon this Tuesday (01Dec) approved **to cancel the in-person part** of the March 21 Plenary originally at Hyatt Denver and to hold an electronic session for the plenary. The EC will take up the rule exceptions needed like in July and Nov.
			1. Actual, dates are being worked on.
		3. For **May 2021** at the Hilton in Panama City, Panama, the WCSC straw poll a month or so ago 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. This week, the 9th, the WCSC met and **plan is to review Panama at the 03Feb21 WCSC call**.
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 #108, 7-11Dec20 🡸 this week (#109-05-12Mar21)**
		1. Meeting all week, user access requirement is what is left to discuss.
		2. Current draft is in .11 members area, EN 303 687 and is in pretty good shape.
		3. Narrow band requirements have moved to a later time. (no agreement w/contributions)
		4. Will be some ad hocs before Feb meeting, they can make decisions.
		5. EN 301 893 5 GHz, still working on adaptivity, so not there yet.
		6. TV WS pulled out geo location (not an essential requirement so not in Harmonized Std.) , and rest is going out for publication.
		7. 60GHz still many drafts…..
	2. **ETSI - ERM -** [<TG-11>](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **next meeting #72b, 03Nov20-22Feb20, correspondence**
		1. ERMTG11(20)000066ReportMeeting minutes of G2M#15 on the 2.4 GHz SRDoc TR 103 665
		2. Chair has been confirmed, [D'Angelo Wilfrid](https://portal.etsi.org/webapp/teldir/ListPersDetails.asp?PersId=79919) of Intel Corp SAS.
	3. **CEPT –** [**<ECC>**](https://cept.org/ecc/groups/ecc/client/introduction/) **last call, #54 Plenary, 17-20Nov20 (next call #55, 01-05Mar21)**
		1. RSComm met yesterday/today, and made decision on 6 GHz, processing output from ECC.
		2. Decision becomes mandatory when from EC, 27 counties by end of September 2021 have to have rules in place on the 500MHz, that is after March EC General Assembly approves action from RSComm.
		3. ECC was voluntary before. (3 countries objected)
		4. 03dec: The list of 31 countries did not make the minutes, thought the 31 countries will be implementing the **ECC DEC (20)01** by 18May21. Some with caveats as expected.
2. Chair presents slide 12, **Other regions (outside EU-Stds and USA), items to share**
	1. ANATEL had a consultation earlier, include top 100MHz or not?
		1. will only be 1200MHz for license exempt. So not the top 100MHz
	2. Many countries in the Americas are looking at the 1200MHz, except Peru is only 500MHz.
		1. Countries are waiting on the top 100MHz until WRC-23 actions.
	3.
	4. Canada consultation we talked to a few weeks back, comments are due 19Jan21.
		1. Much was to harmonize with USA.
		2. RABC has 2 more meetings to respond/update the 18 questions. (RABC is technical only)
		3. For the Canada consultation on 6GHz, if anyone wants IEEE 802 to comment, please send some initial text before the end of the year.
3. Chair presents slide 13 **ITU-R items to share**
	1. WP 5A Liaison on 252 – 296 GHz is out and has been passed onto 802.15 THz SC chair.
4. Chair presents slide 14, **MSG 6 GHz & FCC**
	1. **Any news on 1st circuit court of appeals? yes**
		1. As reported earlier, 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. Latest: April 16, 2021 Final Briefs
		3. TBD Oral Argument (probably just FCC and Petitioners)
	2. BTW – FCC KDB [987594](https://apps.fcc.gov/oetcf/kdb/forms/FTSSearchResultPage.cfm?id=277034&switch=P) for 6GHz is out.
	3. Also first Wi-Fi device certified for use in 6GHz: <https://docs.fcc.gov/public/attachments/DOC-368593A1.pdf>
	4. Multi-stake holder group (MSG) on 6GHz and what happens in the band.
		* 1. 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”.
			2. [https://www.wirelessinnovation.org/6ghz-multistakeholder-committee](https://urldefense.com/v3/__https%3A/www.wirelessinnovation.org/6ghz-multistakeholder-committee__;!!F7jv3iA!miq8gKDh5u9EeBEqnJQ0xEKNYPoCPGlGj45FX_qjQNRwSaW1Br7N6myjjcdbTNciew$)
			3. From original organization meeting:
				1. Work stream 1 - interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO)

Including Outside/Field testing

* + - * 1. Work stream 2 - correct incumbent data (ULS) (Comsearch, APCO)
				2. Work stream 3 - AFC and how it provides protection, etc. (Charter, Google, UTC)
			1. Overall Co-chairs: NPSTC, UTC, WFA, WISPA
	1. Last MSG meeting – 20Nov20
		1. This call and the work stream calls are progressing well and everyone working together.
	2. Next MSG meeting - 18Dec20
1. Chair presents slides 15 - 18, **Table of Frequency Bands – IEEE 802 Stds**
	1. **This proposed table had a good discussion on the EC call on 01Dec20**
		1. <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0245-01-00EC-frequency-tables-of-ieee-802-wireless-standards.pptx>
	2. **Many inputs, some not all:**
		1. Maybe add a 4th phase - of older standards, considering market presence.
		2. Need to consider a version for Public Visibility.
		3. Actually, could get out of hand on all the things everyone would like to see, so maybe a simple high-level version and a detailed lower-level version done over time.
		4. What about licensed-exempt, licensed-exempt w/control and licensed bands?
		5. Consider types of modulations, e.g., UWB over narrower modulations.
		6. Regions/countries
		7. 802.11 has a table for ITU could there be duplication that need to be considered?
			1. Comment on call was not aware of table for ITU.
		8. (from last .18 call: Just because in the standard, is the band being used in the industry or not?)
	3. **How to proceed? >>>Remember .18/.19 joint effort for now.**
		1. Fixed/mobile/nomadic global table in 802.11 - E4, has much information though the rules are constantly changing and to keep up will has been very difficult.
		2. May need to keep at a higher level, and a more easily used form.
		3. A member is starting to look at 802.15 for bands being used, a starting point.
		4. Could we identify some initial parameters,8-10 with an open comment box, and keep in control?
		5. **#1 - Problem statement and audience needs to be done up front, this is a must.**
		6. Was tried in 802.11 before and it was determined too much to maintain.
		7. So maintenance needs to be considered
		8. #2 - Again need to start with very basic items and then review where to go.
		9. The rules among unlicensed bands differ by regulatory authority and change very often.
	4. **From the ad hoc meeting on the 8th of Dec.**
		1. **Possible problem statement**
		2. It is difficult for 802 wireless standards developers to quickly and accurately identify all the bands by the family of 802 wireless standards in a regularly maintained database.
		3. The primary application is to simplify identification of potential bands for coexistence assessment.
			1. Key starting priority: start with just frequency bands and 802 standards
				1. Later we can build on that with prioritizing other areas such as domains, licensed exempt or licensed and etc. as previously discussed.
		4. This does not line up with all the possible audiences and the audiences need to consider all the 802 WGs. Including .16, .22, etc.
		5. For 802.11, annex E is already there and is being maintained, so should just point there and not re-create it.
		6. So maybe this new effort is more where to look for the table of bands for the different Standards. tbd.
	5. **Possible Audiences:**
		1. 1) 802 wireless standards developers
		2. 2) 802.19 wireless coexistence working group
		3. 3) non-802 wireless standards developers
		4. 4) Global regulators
		5. 5) ITU-R
		6. 6) 802.18 Radio Regulatory TAG.
		7. 7) Implementors of 802 wireless standards-based products and services
		8. 8) Wireless academic researchers
	6. **Working on creating an ad hoc team, .18 chair to lead the .18/.19 joint effort with all the wireless groups participating.**
		* 1. .11 **tbd – though just point to Annex E in IEEE Std 802.11™-2020**
			2. .15 Ben
			3. .16 will reach out
			4. .22 will reach out
			5. .18 Edward (w/jay)
			6. .19 Steve (co-lead)
			7. -EC Paul/Geoff
		1. .15 lead will provide what had been started on an 802.15 table before to review and see if that gets the overall table started.
	7. **The ad hoc team on the table of frequency bands will meet over the next weeks/few months, take the new input and work on a recommendation.**
	8. Will status report in the .18 weekly teleconferences as appropriate/
2. Chair presents slides 19, **General discussion items**
	1. IEEE 802 chair was on an interesting NSF Workshop Panel for the Spectrum Innovation Initiative National Center for Wireless Spectrum Research.  A former 802 member was also on the panel.  They had a lively discussion on 802.11/cellular coexistence and fair sharing of unlicensed spectrum.  One of the points made is that deliberations on fair sharing must include economic considerations.
	2. Coincidentally it was discovered these notices from the FCC regarding the importance of including economics into the decision-making process.
		1. Press release: <https://docs.fcc.gov/public/attachments/DOC-368272A1.pdf>
		2. Memorandum: [https://docs.fcc.gov/public/attachments/DOC-368271A1.pdf](https://urldefense.com/v3/__https%3A/docs.fcc.gov/public/attachments/DOC-368271A1.pdf__;!!F7jv3iA!m13olgZ0cSG_3jouIBHdTZsoe-HyNyzDpHt4Jm_i33u7QqM3G245t11hNHUgJK5k6g$)
	3. Does this affect anything our Radio Regulatory group is doing or to consider moving forward?
	4. Will review one last time next week (17th)
3. Chair presents slide 20, Actions required
	* **For the Canada consultation on 6GHz, if anyone wants IEEE 802 to comment, please send some initial text before the end of the year.**
	* **The ad hoc team on the table of frequency bands will meet over the next weeks/few months, take the new input and work on a recommendation.**
	* Chair – start up document with 4 + 3 WRC-23 agenda items IEEE 802 should consider viewpoints on.
		+ Work with APT so IEEE 802 is a recognized SDO for comments.
4. Chair presents slide 21 Any Other Business
	1. None heard
5. Chair presents slide 22, Adjourn
	1. **There will be no call on 24th of Dec20 (2 weeks out).**
	2. **What about 31st? Discussed - plan is not to meet on the 31st either.**
	3. **Next weekly teleconference (scheduled to 20May21): 17Dec 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.
	4. **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)
	5. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:58et
	6. **The next face to face meeting is tbd.**
	7. **The next IEEE 802 plenary will be electronic in March 2021**
	8. **Thank You**

Voting members

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| --- | --- | --- |
| Au | Edward | Huawei Technologies Co., Ltd |
| Ecclesine | Peter | Cisco Systems, Inc. |
| Harrington | Timothy | UWB Alliance |
| 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, Itron, octoScope, Wyebot, UNH BCoE, YAS BBV, Origin Wireless  |
| Palm | Stephen | Broadcom Corporation |
| Rolfe | Benjamin | Blind Creek Associates |
| Stanley | Dorothy | Hewlett Packard Enterprise |
| Yaghoobi | Hassan | Intel Corporation |
| Non Voting Attendees |   |
| Petrick | Al | InterDigital (Jones-Petrick and Associates, LLC.) |
| Pirhonen | Riku | NXP Semicondustors |
| Thompson | Geoff | Self, GraCaSI Standards Advisors |
| Yucek | Tevfik | Qualcomm |