IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 17Dec20 |
| 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, 17Dec20

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

1. Chair presents slides 2 – 6 of 802.18-20/0159r01, 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 from Webex & monitor chat, jay
	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
		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: Vijay Auluck (Self)

Seconded by: Joseph Levy (Interdigital)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Teleconference 10 December 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0156-00-0000-minutes-10dec20-rrtag-teleconference.docx> 11-Dec-2020 10:54:00 ET, with editorial privilege for the 802.18 chair.

Moved by: Mike Lynch (MJLynch Assoc.)

Seconded by: Ben Rolfe (Blindcreek Assoc.)

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. **With that, the chair has announced that .18 will have an interim session on the 14th and 21st of January 2021, each call, 1500-1555et.** (Call-in info is in the back up slides here and will be elsewhere.) Wireless interims:
			1. 802.11 - 11-15jan21
			2. 802.15 - 15-21jan21
			3. 802.18 - 14-21jan21
			4. 802.19 & 24 - not meeting & tbd
		2. For **March 2021** the EC at their monthly telecon on 01Dec20 **approved to cancel the in-person part** of the March 2021 Plenary originally at Hyatt Denver and to hold an electronic session for the plenary. The EC is taking up the rule exceptions needed like in July and Nov.
			1. Proposed time frame from 05Mar21 (Friday) to 19Mar21(Friday)
		3. For **May 2021** at the Hilton in Panama City, Panama, the WCSC straw poll earlier 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. On the WSCS 09Dec20 call the **plan is to review Panama on 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 #109-05-12Mar21**
		1. There are other calls being setup for different activities, stay tuned.
		2. Remember BRAN reacts to CEPT and need to considered their calls and work.
		3. See below for what is being worked. The 5 GHz has a lot to do and has visibility.
		4. 10dec: Meeting all week, user access requirement is what is left to discuss.
			1. Current draft is in .11 members area, EN 303 687 and is in pretty good shape.
			2. Narrow band requirements have moved to a later time. (no agreement w/contributions)
			3. Will be some ad hocs before Feb meeting, they can make decisions.
			4. EN 301 893 5 GHz, still working on adaptivity, so not there yet.
			5. TV WS pulled out geo location (not an essential requirement so not in Harmonized Std.) , and rest is going out for publication.
			6. 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/) **next call #55, 01-05Mar21**
		1. **EC** update from RSCom Dec 9, 10 - mandatory in 27 countries by 1 Dec 2021
			1. To allow Denmark to change CBTC (train control) frequency plans to stay below 5935 MHz (to 5915 MHz)
		2. The Committee reached a stable draft (on the substance) of the Implementing Decision (RSCOM20-42rev2). After completing internal preparations, it is planned that the Committee’s regulatory opinion will be requested by written procedure just after the next meeting in March 2021.
		3. 10dec: RSComm met yesterday/today, and made decision on 6 GHz, processing output from ECC.
			1. 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.
			2. ECC was voluntary before. (3 countries objected)
			3. 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. 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.
			4. RABC last meeting for inputs is Monday, 21Dec20, their last inputs are not out yet.
			5. Then final RABC meeting is 07Jan.
3. Chair presents slide 13 **ITU-R items to share**
	1. Nothing to share
4. Chair presents slide 14, **MSG 6 GHz & FCC**
	1. **Any news on 1st circuit court of appeals?**
		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.
		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.
		1. Change Notice:
		12/16/2020: 987594 D01 U-NII 6GHz General Requirements v01r01 replaces 987594 D01 U-NII 6GHz General Requirements v01 to correct Table 6. The previous version v01 erroneously indicated that indoor and dual clients required an integral Antenna. It was updated to display, along with other devices, that 15.203 applies
	3. 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. Next MSG meeting - 18Dec20
1. Chair presents slides 15 - 17, **Table of Frequency Bands – IEEE 802 Stds – – no update**
	1. **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.
	2. **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
	3. **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 Roger
		4. .22 reached out
		5. .18 Edward (w/jay)
		6. .19 Steve (co-lead)
		7. .24 Tim
		8. -EC Paul/Geoff
		9. 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.
	4. The ad hoc team on the table of frequency bands will meet over the next few months, and work on a recommendation.
		1. Will status report in the .18 weekly teleconferences as appropriate.
	5. **Possible problem statement**
		1. 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.
		2. The primary application is to simplify identification of potential bands for coexistence assessment.
		3. Discussion:
		4. Maintaining a database is different from a list of bands for coexistence assessment
			1. *It is a matter if interpretation/clarity of the first statement.*
			2. What is the actual task at hand?
		5. Maybe start with coexistence needs and drop down the possible audiences,
		6. Seems “coexistence” will be different in different regions, though where does this come in?
		7. 802.11 is in some bands as primary WAS/RLAN, some bands as Short Range Device, some bands as underlay. Different regulatory status for each.
2. **Possible Audiences:**
	1. **1**) 802 wireless standards developers
	2. 2) 802.19 wireless coexistence working group
	3. 17Dec20: Stop here for now, then below are secondary audiences for later.
	4. 3) non-802 wireless standards developers 4) Global regulators
	5. 5) ITU-R 6) 802.18 Radio Regulatory TAG.
	6. 7) Implementors of 802 wireless standards-based products and services
	7. 8) Wireless academic researchers
3. Chair presents slides 18, **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 this week (17th)
	5. Need to be careful how to bring up the economic considerations, e.g. licensed .vs. un-licensed
4. Chair presents slide 19, 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 few months, 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.
5. Chair presents slide 20 Any Other Business
	1. None heard
6. Chair presents slide 21, Adjourn
	1. **There will be no call on 24th or 31st Dec20, Happy Holidays**
	2. **Next weekly teleconference (scheduled to 20May21): 07Jan21–*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> **(r16 is only good to 07Jan21, new call in after that.)**
			1. Also, see back up slide in this agenda.
		2. All late changes/cancellations will be sent out to the 802.18 list server.
	3. **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)
	4. Adjourn:
		1. Any objection to Adjourn.
		2. None heard, Adjourn at 15:52et
	5. **The next face to face meeting is tbd.**
	6. **The next IEEE 802 plenary will be electronic in March 2021**
	7. **Thank You, enjoy the holidays and stay safe.**

Voting members

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| --- | --- | --- |
| Auluck | Vijay | Self |
| Ecclesine | Peter | Cisco Systems, Inc. |
| Harrington | Timothy | UWB Alliance |
| Holcomb | Jay | Itron Inc. |
| Kain | Carl | USDoT |
| Kenney | John | TOYOTA InfoTechnology Center U.S.A. |
| Levy | Joseph | InterDigital |
| Lynch | Michael | MJ Lynch & Associates, LLC. |
| Nikolich | Paul | Self, HPE, Huawei, Itron, octoScope, Wyebot, UNH BCoE, YAS BBV, Origin Wireless  |
| Rolfe | Benjamin | Blind Creek Associates |
| Schiessl | Sebastian | u‐blox |
| Stanley | Dorothy | Hewlett Packard Enterprise |
| Yaghoobi | Hassan | Intel Corporation |
| Non Voting Attendees |   |
| Madhavan | Narendar | Ericsson |
| Pirhonen | Riku | NXP Semicondustors |
| Ward | Lisa | Rohde & Schwarz |
| Yucek | Tevfik | Qualcomm |