IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 05 Dec 2019 |
| Name | Affiliation | Address | Phone | Email |
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|  |  |  |  |  |
|  |
| 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 Teleconference.

These are the Minutes of the IEEE 802 RR-TAG Teleconference, Thursday, 05 Dec 2019

**Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **05dec** | **21nov** | **07nov** | **24oct** | **17oct** | **03oct** | **12sep** | **05sep** | **29aug** |
| Auluck | Vijay | Self Employed | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** | **x** |
| Ecclesine | Peter | Cisco Systems, Inc. |  |  | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Harrington | Tim | Pro ID & UWB Alliance |  |  |  |  |  | **x** |  | **x** |  |
| Holcomb | Jay | Itron Inc. | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Kain | Carl | Noblis, Inc. | **x** |  |  |  |  |  |  |  |  |
| Kenney | John | Toyota ITC | **x** |  | **x** |  |  |  |  | **x** | **x** |
| Kerry | Stuart | Ruckus/ |  |  | **x** |  |  | **x** | **x** | **x** |  |
| Lepp | James | BlackBerry |  | **x** |  |  |  |  |  |  |  |
| Lynch | Mike | MJLynch Assoc | **x** | **x** |  | **x** | **x** | **x** |  | **x** | **x** |
| Mody | Apurva | AIRANACULUS |  |  |  |  |  | **x** | **x** |  |  |
| Nikolich(lmsc) | Paul | Self and others |  |  |  |  |  |  |  |  |  |
| Rolfe | Ben | Blind Creek Assoc. & UWB All. | **x** | **x** |  | **x** |  | **x** |  | **x** | **x** |
| Sarris | Ioannis | u-blox | **x** |  |  |  |  |  |  |  |  |
| Scott | Andy | NCTA |  |  |  |  |  |  |  |  |  |
| Stanley (lmsc) | Dorothy | HPE |  |  |  |  |  |  |  |  |  |
| Verso | Billy | DecaWave |  |  |  |  |  |  |  |  |  |
| Yaghoobi | Hassan | Intel Corporation | **x** |  |  |  | **x** | **x** | **x** | **x** | **x** |

**Non-Voters for this meeting:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** | **Attendance** |
| **05dec** | **21nov** | **07nov** | **24oct** | **17oct** | **03oct** | **12sep** | **05sep** | **29aug** |
| Au | Edward | Huawei |  | **x** |  |  |  |  |  | **x** | **x** |
| Hervieu | Lili | Cable TV Labs | **x** |  |  |  |  |  |  |  |  |
| Levy | Joseph | Interdigital | **x** | **x** |  |  | **x** | **x** |  | **x** | **x** |
| Aboul-Magd | Osama | Huawei |  | **early** |  |  |  |  |  |  |  |

Chair calls the meeting to order at 15:03 ET.

1. Chair presents slides 2 – 6 of 802.18-19/0153r01, the call to order and administrative items
	1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-19/0153r01, the agenda:
	1. Call to Order
	2. Administrative items
		1. Someone to take some notes: jay
	3. Approve agenda & last minutes
	4. Discussion items
		1. EU Items
		2. ITU-R Items (w/WRC-19 final acts)
		3. 5.9 GHz FCC’s draft NPRM
		4. General Discussion Items
	5. Actions required
		1. 5.9 GHz NPRM comments
		2. WRC-xx Agenda Items, interest to IEEE 802
		3. Anything new today
	6. AOB and Adjourn
3. Chair presents slide 8, Administrative – Motions and more
	1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Vijay Auluck (self)

Seconded by: Mike Lynch (MJLynch Assoc.)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion**: To approve the minutes from the IEEE 802.18 Teleconference 21 Nov 2019 in document <https://mentor.ieee.org/802.18/dcn/19/18-19-0148-00-0000-minutes-21nov19-rrtag-teleconference.docx> Posted: 22-Nov-2019 10:45:05 ET

Moved by: Ben Rolfe (Blind Creek)

Seconded by: Vijay Auluck (self)

Discussion? None

Vote: Approved by unanimous consent

* 1. The Chair noted the RR-TAG is in need of a vice-chair and secretary**, is there anyone that can help?** nothing heard
1. Chair presents slides 9-10, EU items to share
	1. BRAN is meeting this week and SE45 meets next week, all that was brought up.
2. Chair presents slides 11-12, ITU-R items to share
	1. WRC-19 is over.
	2. A member sent along a link to get weekly updates from, very nice:
		1. <https://cept.org/ecc/groups/ecc/cpg/page/weekly-report-from-wrc-19>[/](https://cept.org/ecc/groups/ecc/cpg/page/weekly-report-from-wrc-19/)
	3. A second member shared another link with the WRC-19 final acts, 567 pages:
		1. <https://www.itu.int/en/ITU-R/conferences/wrc/2019/Documents/PFA-WRC19-E.pdf>
	4. Our viewpoints/watch list: 1.12, 1.13, 1.15, 1.16, 9.1.5, 10
		1. <https://mentor.ieee.org/802.18/dcn/17/18-17-0073-07-0000-ieee-802-viewpoints-on-wrc-19-agenda-items.pptx>
		2. Quick look at the update, not all the agenda items went in the direction we had wanted.
		3. See next section:
	5. And anything on WRC-23 Agenda Items?
		1. See end of the slides in doc 19-0152.
	6. **A member has done a review of the WRC-19 outcome to our viewpoints on Agenda Items we did for APT. Here is what we sent APT:**
		* 1. <https://mentor.ieee.org/802.18/dcn/19/18-19-0094-05-0000-apt-wp1-wrc-19-ais-1-12-1-15-ieee-802-views.pdf>
			2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0095-05-0000-apt-wp2-wrc-19-ais-1-13-1-16-9-1-5-ieee-802-views.pdf>
			3. <https://mentor.ieee.org/802.18/dcn/19/18-19-0096-05-0000-apt-wp6-wrc-19-ais-10-ieee-802-views.pdf>
	7. **Comparison then to WRC-19 final acts:**
	8. <https://mentor.ieee.org/802.18/dcn/19/18-19-0152-00-0000-summary-of-the-decisions-of-selected-agenda-items-in-wrc-19.pptx>
	9. How should we digest the comparison?
		1. Would a one-page-ish summary spreadsheet help? yes
		2. Or any suggestions? None heard
		3. Thinking to review and summarize and may take a few weeks.
		4. Tried to go through 1.12 and no response for a summary.
			1. May not work to create the simple summary from teleconference inputs.
3. Chair presents slide 13-14 and then 15, Chairman Pai’s statement on 5.9GHz
	1. Mentor:
	2. <https://mentor.ieee.org/802.18/dcn/19/18-19-0150-00-0000-chairman-pais-remarks-new-5-9-ghz-band-proposal.docx>
		1. FCC: <https://www.fcc.gov/document/chairman-pais-remarks-new-59-ghz-band-proposal>
	3. “Specifically, I’m proposing to make available the lower 45 MHz of the band for unlicensed uses like Wi-Fi and allocate the upper 20 MHz for a new automotive communications technology, Cellular Vehicle to Everything, or C-V2X. I’m also proposing that we seek public input on whether to allocate the remaining 10 MHz in the band to C-V2X or DSRC. The Commission will vote on this Notice of Proposed Rulemaking at our December 12 meeting. “
	4. **The 12 Dec Commissioners Open call agenda came out earlier today with this.**
		1. <https://www.fcc.gov/news-events/events/2019/12/december-2019-open-commission-meeting>
	5. **Draft NPRM:**
		1. Agenda has link to draft nprm: <https://www.fcc.gov/document/promoting-innovation-59-ghz-band>
		2. Mentor: <https://mentor.ieee.org/802.18/dcn/19/18-19-0151-00-0000-fcc19-138-draft-nprm-revisiting-use-of-the-5-850-5-925-ghz-band.docx>
	6. **Proceeding 19-138:**
		1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=19-138&sort=date_disseminated,DESC>
		2. Ford and Global Automakers have already filed some notices early in the week and more today.
		3. In general notices to date are as expected.
	7. Chairman Pai did mention this back on 14 May, though still a surprise to most how it came out.
	8. DSRC is significantly impacted, as is P802.11bd. There will be many inputs to consider.
	9. Some original IEEE docs: 11-13/1449, 11-15/0402 and 11-14/1596 for some recent history.
	10. **What does IEEE 802 do?**
		* **All with interest should start to review the draft NPRM and start developing compelling comments to submit when the NPRM is issued 12 Dec, there is a lot that needs to be thought about.**
		1. Question asked: what is the DOT position on this?
		2. What about asking FCC for an extension (once the date is set)?
			1. Need to consider
		3. **802.11bd is working on possible areas to comment on and how.**
		4. **A member suggested 3 focus areas we could review and comment on. Positive feedback from those on the call , and then inputs from others**
			1. 1- re-channelization in general
				1. The FCC is not talking sharing, as IEEE 802 has proposed in the past.
				2. We could bring out the need for sharing, where IEEE 802 as a whole could be in agreement
			2. 2- the 30MHz channelization for ITS
				1. We could question the focus on C-V2X and pull from our 5GAA comments, e.g. forward evolution is limited
			3. 3- Emission requirements
			4. note: 11p and 11bd can work with 10MHz, the existing channel 180.
				1. The NPRM is tbd on channel 180.
		5. Do we promote technology neutral? Commercial maybe, though safety this may not be best.
		6. How do we comment on the comment from Chairman Pai that DSRC has gone no where (why it has been slow)? Will the same forces be in effect after this? E.g. it is not totally technology, much of the slowness is institutional and standards evolved over some of that time and continues.
		7. **Need to review our past comments to DoT, 5GAA, etc. , what can we pull from them.**
4. Chair presents slide 16-17, General discussion items **(last week to share these.)**
	1. FCC 6 GHz proceeding(s) 18-295/17-183 have several new filings, and expected R&O at the 30 January Open Commission Meeting.
		* 1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-295&sort=date_disseminated,DESC>
			2. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=17-183&sort=date_disseminated,DESC>
		1. FCC Expanding Flexible use of the 3.7 GHz to 4.2 GHz Band , 18-122, also expected at January open call.
			1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-122&sort=date_disseminated,DESC>
	2. Rule -- Establishment of a Spectrum Utilization Policy for the Fixed and Mobile Services' Use of Certain Bands Between 947 MHz and 40 GHz; etc Correction.
		1. [PDF](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.govinfo.gov_content_pkg_FR-2D2019-2D11-2D19_pdf_2019-2D24669.pdf-3Futm-5Fsource-3Dfederalregister.gov-26utm-5Fmedium-3Demail-26utm-5Fcampaign-3Dsubscription-2Bmailing-2Blist&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=oG8jmvNzh_S7y_IP3fOJIT2bYLji5aFgFnqesvsaHnw&s=-Cm5_ngHh_V14I586AcS-ROeDrzqv3KG6ssHDlm5gfk&e=) Pages 63811-63812 (2 pages) [Permalink](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.federalregister.gov_d_2019-2D24669-3Futm-5Fsource-3Dfederalregister.gov-26utm-5Fmedium-3Demail-26utm-5Fcampaign-3Dsubscription-2Bmailing-2Blist&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=oG8jmvNzh_S7y_IP3fOJIT2bYLji5aFgFnqesvsaHnw&s=2LOxbRko8mPs7BpH9gg3990vU0d-eNqXSP0mHU1igpc&e=)
	3. Rule -- Transforming the 2.5 GHz Band; Correction
		1. [PDF](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.govinfo.gov_content_pkg_FR-2D2019-2D11-2D21_pdf_2019-2D25202.pdf-3Futm-5Fsource-3Dfederalregister.gov-26utm-5Fmedium-3Demail-26utm-5Fcampaign-3Dsubscription-2Bmailing-2Blist&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=pvNnWiSPBdYGFDbUfurRveUo046UQuj7kg_bWsapMdM&s=qE7xlXmDyfEXhWUoPu9NVKLeAebnfDB6OtQi3MAjf_0&e=) Pages 64209-64210 *(2 pages)* [Permalink](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.federalregister.gov_d_2019-2D25202-3Futm-5Fsource-3Dfederalregister.gov-26utm-5Fmedium-3Demail-26utm-5Fcampaign-3Dsubscription-2Bmailing-2Blist&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=pvNnWiSPBdYGFDbUfurRveUo046UQuj7kg_bWsapMdM&s=F3pFzllc-0EueBUhsNUdwknD_EVwefAxCXpwaUktR6A&e=)
	4. **IEEE-EU spectrum position paper update: (Will pickup later)**
		1. <https://mentor.ieee.org/802.18/dcn/18/18-18-0028-02-0000-draft-ieee-european-public-policy-position-statement-on-spectrum-management.docx>
		2. The IEEE SA position that the RR-TAG help develop, we had requested to use in the EU, in place of theirs:
			1. <https://mentor.ieee.org/802.18/dcn/18/18-18-0010-10-0000-sa-use-of-spectrum-draft-position-orig06dec17.docx>
	5. ACMA comments approved on 21st of Nov. status
		1. Did not make Early Close, and now have missed the deadline, though will pass w/o early close.
		2. Do we file late? Yes, several thought okay.
		3. Anyone know how ACMA views late? No response.
5. Chair presents slide 1, Actions required
* **All review the draft NPRM on 5.9 GHz and work on compelling comments.**
* **Need a .18 timeline to share with P802.11bd, for comments. (e.g. how does Irvine fit in?)**
* Could IEEE 802 request an extension with the FCC?
	+ If Chairman Pai wants 30 days, this may be tough.
	1. **Soon (after 5.9 GHz):**
* **Start to consider what are IEEE 802 viewpoints are for WRC-23 agenda items.**
	1. Ongoing:
		1. WPT use of license-exempt bands and UWB in cell phones
		2. Digital Divide, how can we help?
1. Chair presents slide 19 Any Other Business
	1. Didn’t get to this.
	2. **Does IEE 802 have any concerns/inputs on RF exposure? FCC has a proceeding with an NPRM as part of it (along with an R&O and NOI resolution).**
2. Chair presents slide 20, Adjourn
	1. Next teleconference: 12 Dec 2019 – 15:00 – <15:55 ET
		1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-13-0000-teleconference-call-in-info.pptx> (or latest)
		2. All late changes/cancellations will be sent out to the 802.18 listserver.
	2. Adjourn:
		1. Agenda complete, any objection to Adjourn.
		2. None heard, Adjourn at 16:00 ET.
	3. The next face to face meeting of the 802.18 RR-TAG will be at the IEEE 802, 12–17 Jan. 2019 Wireless Interim in the Hotel Irvine, Irvine, California, USA
	4. Normal time slots, Tuesday AM2 and Thursday AM1 (8:30 start) – remember no reciprocal from other WGs
	5. **Thank You**