Minutes of 802.18 (RR-TAG) Meeting

(Orlando, FL, USA, in November 2017)

IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 06-10 Nov, 2017 |
| Name | Affiliation | Address | Phone | email |
|  |
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| Officer presiding:  |
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Abstract

Minutes of IEEE 802 RR-TAG Interim meeting in Orlando, FL, USA, in November 2017

**Tuesday, Sep 12th, 2017, AM2**

1. The Acting Chair, Jay Holcomb, called the meeting to order at 10:30 local.
	1. About 31 people in the room
2. The Acting Chair used the agenda meeting plan document 18-17/0130r01.
3. Acting Chair reviewed slide #2, Call to Order and Agenda.
	1. Call to Order (attendance server is open)
	2. Administrative Items
	3. Approve Agenda
	4. Approve Waikoloa minutes
	5. Approve Teleconference minutes
	6. Discussion items
		1. Americas
		2. EMEA
		3. APAC
		4. The Global Public Policy Committee
	7. Actions required
		1. TBD (decided by the TAG on Tuesday)
		2. Approve Reply Comments Mid-Band NOI, if available.
		3. Approve Teleconferences moving forward
	8. AOB and Adjourn
4. Acting Chair reviewed Slide #3, Administrative Items
5. Acting Chair reviewed slide #4-5, meeting guidelines.
6. Motion passed to approve the meeting agenda on Slide #2
	1. Moved by: Stuart Kerry
	2. Seconded by: Vijay Auluck
	3. Yes: 19, No: 0, Abs: 0
	4. Result: motion passed
7. Motion passed to approve September 2017 meeting minutes (Document #: 18-17/0119r0)
	1. Moved by: John Notor
	2. Seconded by: Thomas Kuerner
	3. There is no discussion on the motion.
	4. Result: Motion passed by unanimous consent
8. Motion: To approve the minutes from the IEEE 802.18 Teleconferences since the Waikoloa Interim.
	1. Moved by: Vijay Auluck
	2. Seconded by: Stuart Kerry
	3. There is no discussion on the motion.
	4. Result: Motion passed by unanimous consent
9. Acting Chair went through slide #7 on discussion items.
	1. Americas updates
		* New spectrum bill proposed (S.1682)
		* FCC Technological Advisory Council on improving regulations
		* Equipment Authorization rule changes now active
		* DSRC in 5.9 GHz still being debated
		* FCC Mid-band spectrum NOI in Reply Comments
	2. EMEA updates
		* ETSI TC BRAN #95 results
		* ERM TG11 #52 results
		* 6 GHz band opening study in process
		* 60 GHz band adjustments started
	3. APAC updates
		* Australia (ACMA) consultations
		* India (TRAI) consultations
		* Singapore (IMDA) consultation
	4. GPPC Position Statement
10. Acting Chair went through slide #8-11, on Americas update
	1. **New spectrum bill proposed (S.1682)**
		1. <https://www.congress.gov/bill/115th-congress/senate-bill/1682/text>
		2. <https://mentor.ieee.org/802.18/dcn/17/18-17-0133-00-0000-s-1682-bill-to-facilitate-national-pipeline-of-spectrum-for-commercial-and-other-purposes.pdf>
		3. Section 6(b):
			* Rule Making On The Unlicensed Use Of The Frequency Band Between 5925 Megahertz And 7125 Megahertz. —Not later than 180 days after the date of enactment of this Act, the Commission, in consultation with the NTIA, shall issue a notice of proposed rulemaking with respect to creating opportunities for the unlicensed use of spectrum in the frequencies between 5925 and 7125 megahertz without causing harmful interference with any incumbents in that band
	2. **S.1682**
		1. This bill requires the Federal Communications Commission (FCC) to complete auctions during each of the next three calendar years that will grant new broadcast licenses for specified frequency spectrum bands.
		2. The FCC and the National Telecommunications and Information Administration are directed to identify frequencies in specified spectrum bands that may be utilized for:

(1) non-federal unlicensed use; and

(2) commercial licensed use.

* + 1. The FCC must allocate 10% of proceeds from each of the spectrum band auctions specified in the bill to expand wireless infrastructure in rural areas that are underserved or unserved.
		2. The FCC shall conduct a study on how unlicensed frequency spectrum bands can be utilized for:

(1) the provision of healthcare in rural areas,

(2) distance learning, and

(3) facilitating innovations in agriculture.

* 1. **FCC TAC on improving regulations**
		1. ET Docket No. 17-215
			+ <https://apps.fcc.gov/edocs_public/attachmatch/DA-17-800A1.pdf>
			+ <https://mentor.ieee.org/802.18/dcn/17/18-17-0117-01-0000-fcc-tac-removing-rules-technical-inquiry.pdf>
		2. No outcome yet. The 802.18 Chair did provide some input and has been asked to attend the calls.
			+ <https://mentor.ieee.org/802.18/dcn/17/18-17-0128-00-0000-fcc-tac-meeting-discussion.pptx>
	2. **New Equipment Rules now in effect**
		1. Rules adopted last July are now in the Federal Register (Vol. 82, No. 211)
		2. [https://app](https://apps.fcc.gov/edocs_public/attachmatch/FCC-17-93A1.pdf)<https://mentor.ieee.org/802.18/dcn/17/18-17-0134-00-0000-1st-r-o-et-docket-no-15-170-authorization-of-rf-equipment.pdf>
		3. <https://apps.fcc.gov/edocs_public/attachmatch/FCC-17-93A1.pdf>
			+ SDoC, E-Labeling, custom’s form gone, use more industry standards, etc.
	3. **DSRC in 5.9 GHz still being debated**
		1. Demise of DSRC debunked by US DOT (DOT still working on V2V)
		2. **Discussion:**
			+ Comment: FCC has done the tests (Phase 1 is concluded) and waiting for the DOT to make the decision. The DOT is lacking hands and hence this work is delayed.
			+ Comment: New York City has put DSRC devices on road sides to track their vehicles.
			+ Comment: 802.11p has been tested in Europe too, although there are difference voices saying, “we can do better than 11p”.
	4. **FCC Mid-Band spectrum NOI in Reply Comments**
		1. Deadline extended two weeks to 15 November
		2. We had some questions on GPPC process. That is being worked out, see later slides.
		3. Will discuss reply comments, in particular to address the IEEE BTS – Broadcast Technologies Society and their reply comments.
		4. Reply comment points to review and update:
			+ <https://mentor.ieee.org/802.18/dcn/17/18-17-0137-00-0000-802-11-response-to-ieee-bts-reply-comments.pptx>
		5. Note: We need to keep 802.15 / UWB that is already there in mind and that co-existence with 802.11 is an issue.
		6. Goal: If we can work out comments with 802.15 and 802.11, to format, finalize and approve Thursday AM1, then it can be voted on at the EC closing meeting Friday.
			+ Then we are ready to file before the deadline.
		7. **Discussions**:
			+ 802.15 WG Chair worries about the coexistence issue with UWB (no LBT, hard to detect). 802.11ah device has already shown coexistence issue with 802.15.4 devices. Discussion then on how coexistence is done and if coexistence between UWB and other 802 wireless technologies has been considered already (e.g. by Coexistence Assurance Document).
			+ Comment: If 802 will go ahead with the filing without considering assurance of coexistence with UWB and 802.11 will be addressed/proved, 802.15 will withdraw itself from the IEEE 802 filing.
			+ Comment: the coexistence issue with UWB is an 802 issue, not an FCC issue.
			+ Comment: we have the capability to solve the coexistence problem within 802.
			+ Comment: from what has been seen in the past, want to see 802.11 create a TG working on coexistence issues with UWB and provide the solution;
1. The Acting Chair reviewed document 18-17/137r1, Discussion points on Mid-Band NOI
	1. Comment: 802.15 wants a demonstration on how the coexistence works;
	2. Comment: we need to find some points we can agree upon, although we may not be able to satisfy 802.15 fully.
	3. **Action Item**: Next step is a small group will draft a couple of pages to bring to the RR-TAG, Thursday AM1, for review and discussion.
2. Acting Chair discussed slide #12, EMEA Updates;
	* **ETSI TC BRAN #95 results**
		1. TR 103 524 (6 GHz SRdoc) has advanced and on the way to ERM, then SE45 after that.
		2. Discussion of new work
			+ Revised receiver requirements and addition of UK 5,8 GHz requirements
			+ For the band plan will leave up to SE45 and FM57, as we understand ITS asking for 20MHz guard band.
	* **ERM TG11 #52 results**
		1. EN 300 328 v2.1.11 completed (in ENAP; to become v2.2.1)
		2. Receiver blocking limits requested by WFA accepted
			+ en\_300328v020101p.pdf page 37
			+ en\_300328v020200a.pdf page 39 (to be v2.2.1)
	* **6 GHz project started**
		1. WG SE created SE45 with WI SE45\_1
		2. WGFM created FM57 with WI FM57\_1
	* **60 GHz band adjustments started**
		1. New WI to expand band to 71 GHz and move ITS off boundary between two WiGig channels
3. Acting Chair discussed slide #13-14; on APAC update
	1. **Australia consultations**
		1. “Review of Interference Management Principles”
			* <https://mentor.ieee.org/802.18/dcn/17/18-17-0136-00-0000-acma-review-of-interference-management-principles.docx>
			* The closing date for submissions was COB, Friday 22 September 2017, waiting for results.
			* <https://www.acma.gov.au/theACMA/review-of-interference-management-principles> << no comments on line
		2. “Future use of the 3.6 GHz band”
			* Includes 5600-5650 MHz band
			* <https://mentor.ieee.org/802.18/dcn/17/18-17-0092-00-0000-acma-future-use-of-the-3-6-ghz-band.docx>
			* The closing date for submissions was COB, Friday 4 August 2017.
				1. <https://www.acma.gov.au/theACMA/uture-approach-to-the-3_6-ghz-band>
				2. There are some comments here now.
	2. **India (TRAI) consultation**
		1. “Recommendations on Spectrum, Roaming and QoS related requirements in Machine-to-Machine (M2M) Communications”
			* <https://mentor.ieee.org/802.18/dcn/17/18-17-0135-00-0000-trai-india-recommendations-on-spectrum-roaming-and-qos-related-requirements-in-m2m-comms.pdf>
			* Monitoring for outcome
	3. **Singapore (IMDA) consultation**
		1. “5G mobile services and networks”
			* <https://mentor.ieee.org/802.18/dcn/17/18-17-0094-00-0000-singapore-5g-consultation.pdf>
			* Was to IMDA by 7 July 2017. Monitoring for outcome.
4. Acting Chair discussed slide #15, GPPC Position Statement on Contiguously Allocated Spectrum
	1. **Documents were received on 03 November**
		1. <https://mentor.ieee.org/802.18/dcn/17/18-17-0131-00-0000-ieee-sa-contiguously-allocated-spectrum-position-1.docx>
			* (There was a second document though looks to be a dupe. It is 18-17/0132r00)
	2. ***We have been asked to review and comment on these by 13 November.***
		1. This is to be a high-level position paper that we do not want to restrict any regulatory public comments/communications from IEEE 802, it’s Working Groups and TAGs.
		2. See Rev 18-17/0131r01 for updates discussed in the meeting.
5. Acting Chair discussed slide #16, GPPC approval process
	1. Following 802.18 TAG and 802 EC 10-day approvals, the Global Public Policy Committee would add another 7-day approval process on correspondence.
		1. E.g. if we receive a document we decide to respond to, that has a typical 30-day Comment period, the TAG has a maximum of 13-days to outline, compose and approve the response
		2. Based on our meeting and teleconference schedule, we could lose 6-days due to the asynchronous regulator/IEEE schedules
		3. This would leave us a total of 7-days for our entire process, which is not sufficient.
		4. Actually, some Reply Comment periods are only 15-days and at times the TAG does not receive requests on day one.
	2. It is being researched if we stay within the IEEE Position Statements, we would not need the additional approval.
6. Acting Chair reviewed document 18-17/131r1, IEEE-SA Contiguously Allocated Spectrum Position #1
	1. Some online editing is done.
7. Acting Chair reviewed the Thursday agenda.
	1. If available, finalize and approve Reply Comments to the Mid-Band NOI.
	2. Will define other items Tuesday
	3. Approve Teleconferences moving forward
8. Acting Chair recessed the meeting at 12:02PM. We are recessed till Thursday AM1.

**Thursday, Nov 9th, 2017, AM1**

1. The Acting Chair, Jay Holcomb, called the meeting to order at 08:03 local.
	1. About 18 people in the room
2. The Acting Chair used the agenda meeting plan document 18-17/0130r02.
3. Acting Chair reviewed Slide #17, Thursday Agenda.
4. Acting Chair reviewed Slide #3, Administrative Items
5. Acting Chair reviewed Slide #4-5, meeting guidelines.
6. Acting Chair reviewed Slide #18, Action Required
	1. Status on FCC Mid-Band NOI reply comments
		1. Action Item from Tuesday: Small group met Wednesday afternoon.
		2. Compromise between 802.11 and 802.15 could not be reached.
		3. Each working group will be doing their own Reply Comments, informing the EC this Friday.
			* Documents will be posted on the respective Mentor pages when available.
		4. It was noted that it was unfortunate that IEEE 802 is not having united reply comments. We need to always strive for a single reply for all IEEE 802 WGs and TAGs.
	2. Comment: it is unfortunate that we cannot reach agreement;
7. Acting Chair reviewed Draft IEEE-SA Position Statement (18-17/131r1)
	1. Question raised on what purpose does this statement serve. The Acting Chair explained.
	2. Comment: (on the title of the statement, “Contiguously Allocated Spectrum”) the most important thing is to put spectrum in use, we should ask for more spectrum, contiguous or non-contiguous are secondary;
	3. Comment: we want contiguous spectrum, but it does not mean we cannot use non-contiguous spectrum;
	4. Comment: don’t understand value of what GPPC adds as the experts are here; this group should decide on what are the technical comments.
	5. Comment: we should change the title.
	6. Discussion on what the title should be.
	7. Acting Chair edited the document from the discussion, changes were made on the fly. The title was changed to “Additional Spectrum Needed”
8. Acting Chair entertained a motion (#4) on Slide 19;
	1. Motion: To approve revised document <https://mentor.ieee.org/802.18/dcn/17/18-17-0131-02-0000-ieee-sa-contiguously-allocated-spectrum-position-1.docx>, RR\_TAG Marked up DRAFT IEEE-SA POSITION STATEMENT on “Additional Spectrum Needed” for review and approval by the EC for sending to the IEEE-SA on or before 13 November 2017. The Chair and Vice Chair of 802.18 are authorized to make editorial changes as necessary.
	2. Moved by: Vijay Auluck
	3. Seconded by: Mike Lynch
	4. Discussion: In the future we need more context on these documents for a better understanding its purpose.
	5. Result: Yes: 15; No: 1; Abs: 1; Motion Passed
9. Acting Chair entertained a motion on teleconference time (#5) on Slide 20;
	1. Motion: The 802.18 Chair or Vice Chair is directed to conduct, as necessary, teleconferences on Thursdays at 2:30pm ET through 26 April 2018
	2. Moved by: Mike Lynch
	3. Seconded by: Stuart Kerry
	4. There is no discussion on the motion;
	5. Result: Yes: 16; No: 0; Abs: 0; Motion Passed
10. Acting Chair discussed Slide #21, Any Other Business / Adjourn
	1. Next teleconference: 30 November at 14:30 ET
		1. Two weeks from now is a major US holiday (Thanksgiving Day)
		2. For future reference, to have better context and final audience on things like the IEEE-SA Additional Spectrum Needed paper would be helpful.
	2. Motion to Adjourn:
		1. Agenda is complete, Motion to Adjourn.
		2. Moved by: Stuart Kerry
		3. Seconded by: Peter Ecclesine
11. The meeting was adjourned at 9:06AM; the AM2 session was cancelled.