Minutes of 802.18 (RR-TAG) Meeting

(Vancouver, BC, Canada, in March, 2017)

IEEE 802.18

Radio Regulatory-TAG

|  |
| --- |
| Radio Regulatory Technical Advisory Group Minutes |
| Date:  |
| Name | Affiliation | Address | Phone | email |
|  |
| Author(s):  |
| Allan Zhu | Huawei Technologies | San Jose, CA | (718)877-9645 | chunhui.zhu@huawei.com |
|  |  |  |  |  |
|  |
| Officer presiding:  |
| Rich Kennedy, Chair, RR-TAG | HP Enterprise | Austin, TX | (737) 202-7014 | rich.kennedy@hpe.com |

Abstract

Minutes of IEEE 802 RR-TAG Interim meeting in Vancouver, BC, Canada, in March, 2017

**Tuesday, March 14th, 2017, AM2**

1. The Chair, Rich Kennedy, called the meeting to order at 10:33 local.
	1. About 21 people in the room
2. The Chair used the current agenda meeting plan document 18-17/0048r01.
	1. Chair reviews slide 2, proposed agenda.
		1. Approve Atlanta minutes
		2. Discussion items
			1. Regulatory work in progress
			2. Status of completed work
		3. Actions required
			1. ISED (Canada) 5150-5250 MHz consultation
			2. Ofcom 5.8 GHz proposal
			3. Advancing the 6 GHz effort in the US and EU
		4. AOB and Adjourn
	2. Chair asked if any additions for the agenda.
	3. Agenda approved by unanimous consent.
3. Chair reviewed Slide #3, Administrative Items
4. Chair reviewed slide #4, #5, meeting guidelines.
5. November 2016 meeting minute was approved by unanimous consent on slide #6.
	1. Document #: 18-17/0042r0
6. Chair went through slide #7 for discussion items.
	1. FCC
	2. EU
	3. Other Regulatory
	4. ITU-R Liaisons
7. Chair went through slide 8, on FCC update
	1. Amtrak waiver request (IEEE 802 filed comments)
		1. High power for trackside networks in the Northeast corridor
	2. DSRC testing still in phase 1
		1. Now 2 months behind schedule
		2. Comment: Too much behind schedule
	3. 5350-5470 MHz band closed to unlicensed sharing
		1. Final blow to contiguous 5 GHz band
	4. TVWS resurgence following close of Incentive Auction
8. Chair discusses slide #9, EU Updates;
	1. ECC approves WGFM (Working Group Frequency Management) sharing study in 5925-6425 MHz band
		1. Will be done in SE24
		2. ETSI BRAN looking to do Technical Report
	2. Ofcom 5725-5850 MHz band proposal
		1. See Action Items
	3. EU Radio Equipment Directive & standards updates
	4. CPG PT-D working towards WRC-19
		1. Next meeting in May, 2017, France
	5. EU METNET request to close 5600-5650 MHz
		1. No DFS or technology failure
		2. Enforcement issue should not harm users
9. Chair discusses slide #10; on EU Radio Equipment Directive (RED)
	1. The transition has already started
		1. RED in THE LAW as of June 13, 2016
		2. R&TTE expires June 12, 2017
		3. After June 2017, all devices must meet the RED requirements, i.e. R&TTE certifications during the transition must be re-certified
	2. Following the deadline, ALL equipment to be placed on the EU market must meet the RED provisions
	3. EN 300 328 published in the OJEU!
	4. It appears that EN 301 893 will not be not published in time
		1. EC has *NOT* approved use of v1.8.1 with note that v2.0.7 Receiver Requirements must also be met
		2. Passed ENAP; official publication date in August 19th, but could happen sooner
10. Chair discusses slide #11; on Other Regulatory
	1. Canada
		1. See Action Items
	2. Mexico
		1. <http://www.ift.org.mx/industria/consultas-publicas/consulta-publica-sobre-el-anteproyecto-de-clasificacion-de-la-banda-de-57-64-ghz-como-espectro-libre>
		2. [Documento en Consulta Pública: Anteproyecto de clasificación de la banda de 60 GHz como espectro libre](http://www.ift.org.mx/sites/default/files/industria/temasrelevantes/9428/documentos/anteproyectodeclasificaciondelabandade60ghzcomoespectrolibre.docx)
		3. Harmonization of 57-64 GHz with US rules
		4. Includes ITS in 63-64 GHz
		5. About time to close. We don’t have enough time to react.
11. Chair discusses slide #12-13; on ITU-R Liaisons
	1. 18-17-0043 - LIAISON STATEMENT TO EXTERNAL ORGANIZATIONS ON THE SCHEDULE FOR UPDATING RECOMMENDATION ITU-R M.1457 TO REVISION 14 – This recommendation is titled “Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2000 (IMT-2000)”. The current revision is number 13 and this is asking for contributions for the update to Revision 14. The next WP5D meeting begins June 13th in Niagara Falls, Ontario, Canada.
	2. 18-17-0044 - Further information on the invitation for submission of proposals for candidate radio interface technologies for the terrestrial components of the radio interface(s) for IMT-2020 and invitation to participate in their subsequent evaluation – This liaison is to bring attention to Addendum 1 to Circular Letter 5/LCCE/59 which was issued to announce the availability of further relevant information including the availability of Document IMT-2020/2 - Submission and evaluation process and consensus building for IMT-2020. Those interested in the development of IMT-2020 (aka 5G) will have an interest in this effort.
	3. 18-17-0045 - ITU-R WORKING PARTY 5D WORKSHOP ON IMT-2020 – The invitation for submission of proposals for candidate radio interface technologies for the terrestrial components of IMT-2020 was issued with Circular Letter 5/LCCE/59 by ITU-R on 22 March 2016. This liaison provides the date for that workshop (October 4th) which is to be held at an as yet undetermined location in Germany.
	4. 18-17-0047 - CONSOLIDATION OF REPORTS FROM THE WORKING GROUPS OF WORKING PARTY 5A – It provides a summary of current WP5A activity. It provides a summary of the work currently being done in WP5A which deals with mobile communications other than IMT. Topics include train to rail side communications and the millimetric frequency range.
12. Chair discusses slide #14; Actions Required
	1. ISED (Canada) Consultation
	2. Comments for Ofcom 5.8 GHz band proposal
	3. Support for unlicensed sharing in 6 GHz
	4. IEEE 802 positions for WRC-19
13. Chair discusses slide #15; ISED (Canada) Consultation
	1. Chair reviewed the document [ISED Consultation.pdf](https://groups.wi-fi.org/apps/org/workgroup/spectrum/download.php/79551/ISED%20Consultation.pdf)
	2. Comments due March 29, 2017
	3. Whether to modify the current technical and policy framework for radio local area network (RLAN) devices operating in the 5150-5250 MHz frequency band now, or wait for the results in WRC-19
	4. Harmonizing with the US changes
	5. Hassan Yaghoobi (Intel Corp.) reviewed contribution 18-17/0039r1 on “COMMENTS OF IEEE 802”. This is a draft response from IEEE to ISED.
14. Chair discusses slide #16; Ofcom 5.8 GHz Band Proposal
	1. May 2016 consultation:
		1. <https://www.ofcom.org.uk/__data/assets/pdf_file/0037/79777/improving-spectrum-access-consumers-5ghz.pdf>
	2. Statement:
		1. <https://www.ofcom.org.uk/__data/assets/pdf_file/0032/98159/5p8-Regs.pdf>
		2. Comments due April 11th, 2017
15. Chair discusses slide #17-18; Unlicensed Sharing of the 6 GHz Band
	1. Wi-Fi volume growth and technology advancement are hampered by lack of significant 80 and 160 MHz channels
	2. The (near) future demands gigabit speeds to avoid becoming the bottleneck
	3. Sharing with FSS and fixed microwave links
	4. Industry coalition to drive needed regulatory changes
		1. Joint exploration of the 5925-7250 MHz with the intent of obtaining an unlicensed designation
		2. Joint funding of third parties and engineering support to conduct interference analyses (incl. spectrum measurements, sharing studies, and potential mitigations) in support of unlicensed designation
		3. Joint exploration of mitigation techniques and proposals, which may require standards contributions
		4. Drive regulatory changes in the US, EU and globally
16. Thomas (Chair of 802.15.3d) reviewed document 15-17/0179/r1, IEEE 802 Liaison to ITU-R WP 5A/C Characteristics above 275 GHz. Under this cover letter, there are several documents.
	1. 15-17/0180/r2; WP5A Mobile Draft Report;
	2. 15-17/0181/r2; WP5A Fixed Draft Report;
17. Thomas (Chair of 802.15.3d) reviewed document 15-17/0138/r2, Draft for an IEEE 802 position on AI 1.15 WRC19.
18. Chair discusses slide #20; IEEE 802 positions for WRC-19
	1. Regulators in developing countries are interested in the IEEE 802 positions, to help them formulate their inputs
	2. Applicable agenda items
		1. 1.12 ITS harmonization
		2. 1.13 IMT
		3. 1.14 HAPS
		4. 1.15 275 GHz
		5. 1.16 5 GHz
		6. Issue 9.1.5
	3. Formal “Position Paper”
	4. Do we want to submit as a sector member
19. Completed agenda content for today.
20. Chair reviewed agenda for Thursday on Slide 21
21. Chair recessed the meeting at 12:13AM. We are recessed till Thursday AM1.

**Thursday, March 16th, 2017, AM1**

1. The Chair, Rich Kennedy, called the meeting to order at 8:03 local.
	1. About 16 people in the room
2. The Chair used the current agenda meeting plan document 18-17/0048r02.
	1. Chair reviews slide 2, proposed agenda.
3. The Chair reviewed Slide 15, Thursday Agenda;
	1. Review and approve the agenda
	2. Review the week
	3. Actions required
		* Complete and approve ISED consultation response
		* Review and approve the Terahertz liaison responses
		* Review and approve the ITU-R M.2003 revision
		* Continue work on the Ofcom 5.8 GHz proposal
		* Discuss the upcoming 6 GHz project
	4. AOB and Adjourn
4. The Chair reviewed the administrative slides on Slide #3-#5;
5. The Chair reviewed what have been done at this meeting;
	1. WG11 motion passed to submit IEEE comments to ISED, Canada; (Slide 17)
6. The Chair entertained a motion on Slide #18
	1. Motion: Approve document <https://mentor.ieee.org/802.18/dcn/17/18-17-0039-03-0000-proposed-ieee-802-response-to-canada-ised-consultation.docx> as the IEEE 802.18 input for the ISED 5150-5250 MHz consultation, and forward the 802 EC for their approval and submittal to ISED on or before March 29, 2017.
	2. Moved: Hassan
	3. Seconded: Jay
	4. Discussion?
	5. Vote: 11/0/0 The motion is approved
7. Thomas reviewed document 18-17/0054r0, ITU-R-WP5C-Fixed-Draft\_Report;
	1. Changes have been reviewed;
8. Thomas introduced the work in the following documents:
	1. 18-17/0055r0, ITU-R-WP5A-Mobile-Draft\_Report;
	2. 18-17/0056r0, Liaison statement to WP5A;
	3. 18-17/0057r0, Liaison statement to WP5C;
	4. 18-17/0058r0, Draft Position on WRC19 AI 1.15;
9. The Chair entertained a “Terahertz Responses Motion” on Slide 23;
	1. Motion: Approve document 18-17/54r0 and its cover letter in 18-17/57r0, and 18-17/55r0 and its cover letter in 18-17/56r0 as our responses to ITU-R WP5C and WP5A liaisons respectively, and forward to the IEEE 802 EC for their approval and submittal on or before May 10, 2017.
	2. Moved by: Thomas K.
	3. Seconded by: Jay H.
	4. Discussion?
	5. Vote: 11/0/0 The motion passes
10. Ben reviewed document 18-17/0059r0, Proposed updates to Annex 17 to Document 5A/298-E from 802;
	1. The Chair suggested we approve the document here and talk to 11ay to prevent sending two separate sets of comments to ITU-R;
	2. As 11ay has not done its standard, it is not certain how they can comment on this;
	3. We need a cover letter for the document;
11. The Chair entertained a motion for WP5A Liaison Response on Slide 24;
	1. Approve document <https://mentor.ieee.org/802.18/dcn/17/18-17-0059-01-0000-proposed-updates-to-annex-17-to-document-5a-298-e-from-802.docx> as our proposed update to Annex 17 of Document 5A/298-E (M.2003) in response to the ITU-R WP5A liaison, and create the coversheet with the request to support the extension of the 60 GHz band to 71 GHz, and forward to the IEEE 802 EC for their approval and submittal on or before May 10, 2017.
	2. Moved by: Thomas K.
	3. Seconded by: Stuart K.
	4. Discussion?
	5. Vote: 10/0/1 The motion passes
12. The Chair reviewed Ofcom document
	1. We will send letter supporting the open of this band (5725-5850MHz)
	2. We will do the letter during teleconference;
13. The Chair reviewed Slide #25, IEEE 802 positions for WRC-19
	1. Plan to finish the “Position Paper” by July meeting as the African regulators will go to the IEEE July meeting;
14. Mike reviewed the WRC 19 agenda
15. The Chair discussed the upcoming 6GHz project
	1. WFA published a paper claiming the industry needs 600MHz to 1.2GHz spectrum in the future.
16. The Chair entertained a motion on the teleconference time on Slide #27
	1. The Chair is directed to conduct, as necessary, teleconferences on Thursdays at 2:30pm ET through August 31, 2017.
	2. Moved: Jay Holcomb
	3. Seconded: MJ Lynch
	4. Discussion?
	5. Vote: Unanimous consent
17. The Chair reviewed any other business on Slide #26.
18. We adjourned at 9:20AM. The Thursday AM2 meeting was cancelled.