Minutes of 802.18 (RR-TAG) Meeting

(San Antonio, TX in November, 2016)

IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date:  |
| Name | Affiliation | Address | Phone | email |
|  |
| Author(s):  |
| Allan Zhu | Huawei Technologies | San Jose, CA | (718)877-9645 | chunhuizhu@huawei.com |
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| 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 San Antonio, TX in November, 2016

**Tuesday, Nov 8th, 2016, AM2**

1. The Chair called the meeting to order at 10:32 local.
	1. 17 people in the room
2. The Chair used the current agenda meeting plan document 18-16/0088r01.
	1. Chair reviews slide 2, proposed agenda.
		1. Review and approve the agenda
		2. Approve Warsaw minutes
		3. Discussion items
			1. Regulatory work in progress
			2. Status of completed work
		4. Actions required
			1. TBD
		5. AOB and Adjourn
	2. Chair asked if any additions for the agenda.
		1. Nothing heard.
	3. Chair asked if any objections to approve agenda, by unanimous consent.
		1. Nothing heard, agenda approved by unanimous consent.
3. Chair reviews slides 3, 4, administrative meeting guidelines.
4. September Meeting minute was approved by unanimous consent on slide#5.
	1. Document #: 18-16/0079r0
5. Chair discusses slide 7 and 8, on ETSI Updates
	1. EN 300 328
		1. V2.2.1 in process (v2.1.1 ENAP complete next week)
		2. Multiple regulatory bodies require receiver tightening
	2. EN 301 893 still resolving issues
		1. Clause 4 Technical requirements specifications completed
		2. Clause 5 Testing for compliance with technical requirements addressed at BRAN #89
		3. Frame Based Equipment test to be added (objection not expected)
		4. Approval in November but will not have standard in place for June 12, 2017 RED deadline

Q: What are the issues?

A: receiver blocking and adjacent channel objection.

C: Ofcom offered to have a deal with the Wi-Fi industry: if there are no other national bodies vote No, Ofcom will not vote No. Deal does not work.

* 1. EN 301 598 (TVWS) – new rapporteur same as the old rapporteur
		1. Completed RED changes; will approve in December
	2. Technical Reports on 5 GHz band sharing

These reports are important for building up WRC 19.

* + 1. TR 103 317 EESS in the 5 350 MHz to 5 470 MHz band
		2. TR 103 318 Radiolocation Systems in the 5 350 MHz to 5 470 MHz and 5 725 MHz to 5 850 MHz bands
		3. Completed “for now”; needs to be ready for January CPG PTD
		4. TR 103 319 Road Tolling and Intelligent Transport systems in the 5 725 MHz to 5 925 MHz band
		5. Significant progress; teleconferences set for finalizing in November
1. Chair discusses slide 9; on FCC WRC-19 Advisory Committee (WAC)
	1. Second meeting October 24th
	2. Some Preliminary Views approved
		1. <https://mentor.ieee.org/802.18/dcn/16/18-16-0084-00-0000-fcc-wac-pvs-october-2016.pdf>
		2. Agenda Item 1.16 (5 GHz bands) not presented yet
		3. **1.16** *to consider issues related to wireless access systems, including radio local area networks (WAS/RLAN), in the frequency bands between 5 150 MHz and 5 925 MHz, and take the appropriate regulatory actions, including additional spectrum allocations to the mobile service, in accordance with Resolution****COM6/22 (WRC‑15).***
	3. Next meeting February 24, 2017
2. Chair discusses slide 10-13, CEPT CPG PT-D
	1. Expected Outcomes from the First CPG-19 PT-D
		1. Tangible
			1. PT-D Chairman’s Report to WP5A
			2. “CEPT Briefs” for each of the agenda items
				1. Preliminary positions
		2. Intangible
			1. An understanding of the National Administrations’ positions
			2. Alignment of sides on the issues
				1. Anti-RLAN
				2. Pro-RLAN
				3. Apparent neutrals
			3. Introduction of the debating points that we will have to be able to counter
			4. Basis for preparation for the next meetings
	2. Agenda Item 1.16 Preliminary Positions Adopted
		1. **5150-5350 MHz band:** “CEPT would support relaxing the access conditions applicable to WAS/RLANs, if results of studies show that sharing and compatibility can be achieved with EESS, radars, MSS feeder links, aeronautical radionavigation and aeronautical telemetry (see RR footnote 5.446C)”
		2. **5350-5470 MHz band**: “CEPT opposes any new allocation to the mobile service with a view to accommodating WAS/RLAN use unless the mitigation techniques (such as DFS for radars) can be shown to provide co-existence with EESS (all types of sensors) and compatibility with all radio determination systems (including Meteorological Radars), taking into account their feasibility (including real implementation at international level) and effectiveness”
		3. **5725-5850 MHz band:** “CEPT would support a new mobile allocation to accommodate WAS/RLANs use if sharing and compatibility studies can demonstrate the effectiveness of new proposed interference mitigation techniques to ensure the protection of radars, fixed service (see RR footnote 5.455) [road-tolling systems] and FSS uplinks”
		4. **5850-5925 MHz band:** “CEPT is still in discussion over its initial preliminary position for this band, taking into account the need to not impose any additional constraints on existing services such as FSS and mobile service and its applications”
	3. Other Pertinent Agenda Items
		1. On WRC-19 Agenda item 1.12 (spectrum for ITS), CEPT CPG PT-D adopted following preliminary positions:
			1. use of the bands 5855 - 5925 MHz for ITS should be investigated further with the view to a possible harmonization measure at ITU level, noting that ITS is allocated under the primary mobile service within CEPT on a non-exclusive basis and ITS devices cannot claim protection from FSS earth stations;
			2. use of the bands 63 - 64 GHz for ITS should be investigated further with the view to a possible harmonization measure at ITU level, noting that ITS is allocated under the primary mobile service within CEPT and that ITS devices cannot claim protection from Radiolocation systems
			3. development of ITS should not impose additional constraints on incumbent services to which these bands of radio frequencies have been allocated
		2. On WRC-19 Agenda item 9.1.5, CEPT CPG PT-D adopted following preliminary positions:
			1. no substantive agreement towards CEPT position
	4. Other Observations
		1. The UK input for 1.16 was argued vociferously for most of the Wednesday session, and heavily edited, led by the Russian Federation, Luxembourg, France, Germany, Netherlands, Austria, Sweden, Switzerland and others, careful to ensure that none of it would have any impact on the satellite interests status quo
		2. The Russian delegate specifically said, “With all due respect to my RLAN colleagues, we would be very happy if you just went away.” He quoted Karl Marx in regards to what he called the RLAN community’s capitalistic aims (ignoring our value for the proletariat)
		3. It is clear to me that the National Administrations currently hold all (or at least most of) the cards. Working in concert with EUMETNET, EUMETSAT, ESA and Bosch, they are in a position to dominate the consensus-driven organization
		4. UK is clearly trying to help the RLAN community, and Germany seems to be mostly neutral, but we are in the minority. However, as a consensus-driven organization, a vocal enough minority can still force some degree of compromise
		5. The Transfinite satellite studies were not discussed (yet), and the satellite folks reacted noisily to the characterization of their studies of potential impact of RLANs as overly conservative, prompting a statement that interference will cause airplanes to crash, blood to be spilled.
3. Chair discusses slide 14; EU Radio Equipment Directive (RED)
	1. The transition has already started
		1. RED in THE LAWas 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. It appears that EN 301 893 will not be not published in time (this will lead to a situation where old regulation has expired and the new regulation is not in place; no rules to follow)
		1. Process requires Notified Bodies be employed to enable shipment
		2. Current situation will overwhelm the process
		3. Multiple efforts underway to mitigate the situation
			1. Digital Europe proposes legal solution
			2. Discussion at next TCAM meeting on extending R&TTE (11/3/16)
4. Chair discusses slide 15; FCC 16-149
	1. Public Notice on the 2016 Biennial Review
		1. <https://mentor.ieee.org/802.18/dcn/16/18-16-0089-00-0000-fcc-pn-biennial-review.doc>
	2. Comment Date: December 5, 2016
	3. Reply Comment Date: January 3, 2017
	4. UPCS 1920-1930 MHz (DECT)
		1. Part 15.155 rule change; protocol too restrictive
		2. For 11ah?
	5. Chair ask people to consider whether we need to respond
5. Chair discusses slide 16; U-NII-4 prototype device testing open house
	1. The Office of Engineering and Technology held an open house to review the U-NII-4 to DSRC phase 1 test plan on October 21, 2016 at its Laboratory located in Columbia, MD
	2. Any discussion
		1. One member attended that meeting and gave a brief update to the group;
	3. Test plan details can be found at the links below
		1. <https://www.fcc.gov/oet/unii-4banddevice>
		2. <https://ecfsapi.fcc.gov/file/110254808472/13-49.pdf>
6. Chair discusses slide 17; 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. EC ask 802.18 to come up with comments.
	3. Applicable agenda items
		1. 1.12 ITS;
		2. 1.13 IMT
		3. 1.14 HAPS
		4. 1.15 275 GHz
		5. 1.16 5GHz
		6. Issue with 9.1.5
	4. Wi-Fi prefers not to be listed under IMT band to avoid giving people impression that the bands are licensed.
	5. Chair’s questions to the group
		1. Do we want to write a Formal “Position Paper”?
		2. Do we want to submit as a sector member?
7. Chair discusses slide 18; Actions Required
	1. Member suggest including any 802.11 REG SC policies that are not currently in 802.18
		1. Inputs to REVm for regulatory changes/additions to the standard
			1. Brought into 802.11WG for approval via mid-week liaison
			2. Chair should have a permanent liaison slot in 802.11
			3. See 9.1.6 in 802.11 Operations Manual (11-14/629r16)
			4. Ask EC to provide liaisons from all wireless WGs
	2. **UPCS 1920-1930 MHz (DECT)**
		1. Part 15.155 rule change; protocol too restrictive
		2. For 11ah?
8. Completed agenda content for today.
9. Chair reviewed agenda for Thursday on Slide 19
10. Chair recessed the meeting at 11:55AM. We are recessed till Thursday AM1.

**Thursday, 10 Nov, 2016, AM1**

1. Chair called the meeting to order at 08:02 local.
2. Chair used the agenda meeting plan document 18-16/0088r02
	1. Chair review the agenda for the week on Slide #2;
3. Chair reviews slides 3, 4, administrative meeting guidelines.
4. Chair review the agenda for today on Slide #19;
5. Chair review slide #20, on FCC 16-149
	1. Public Notice on the 2016 Biennial Review
		* <https://mentor.ieee.org/802.18/dcn/16/18-16-0089-00-0000-fcc-pn-biennial-review.doc>
	2. Comment Date: December 5, 2016
	3. Reply Comment Date: January 3, 2017
	4. UPCS 1920-1930 MHz (DECT)
		* Part 15.155 rule change; protocol too restrictive
		* For 11ah?
	5. Chair: Is this something we want to do?
	6. Chair: Are we late to start this?
	7. C: Wait to see comments and plan a reply at that time
		* Any Part 15 comments
		* We might have an input for UWB from 802.15, but timing could be an issue.
6. Chair discusses slide 21; 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. EC ask 802.18 to come up with comments.
	3. Applicable agenda items
		* 1.12 ITS;
		* 1.13 IMT
			+ Chair: we need to have a strong position here: make it unlicensed (60GHz)
		* 1.14 HAPS
			+ Chair: we want to make it for unlicensed use; make sure this band can be shared
		* 1.15 275 GHz
		* 1.16 5GHz
		* Issue with 9.1.5
	4. Formal “Position Paper”?
		* C: This is doable. One will talk to James Glib (he is the person knows the rules).
		* C: Purpose is to request from EC to give developing countries our position.
	5. Do we want to submit as a sector member?
		* Not sure if this is the right thing to do. There may be downside we want to avoid.
		* Chair will check.
7. Chair discuss Slide #22: Any Other Business
	1. Globalstar surrender?
		* <https://mentor.ieee.org/802.18/dcn/16/18-16-0092-00-0000-globalstar-november-2016-filing.pdf>
	2. Regulatory calendar
	3. ETSI RED workshop December 1st
		* <http://www.etsi.org/news-events/events/1102-53-shades-of-re-d-six-months-to-go>
8. Chair entertain a motion on Slide 23 for teleconference times
	1. Motion: The Chair is directed to conduct, as necessary, teleconferences on Thursdays at 2:30pm ET through May 4, 2017.
	2. Moved: John Notor
	3. Seconded: MJ Lynch
	4. Discussion?
		* No discussions
	5. Vote: motion passes with unanimous consent
9. Teleconferences: Thursdays at 2:30pm ET through May 4, 2017
10. Next meeting: December 1st
11. Chair reminded the members to record their attendance.
12. Chair proposed to adjourn at 8:52AM local time. No objections.
	1. Meeting adjourned.
	2. Thursday, AM2 meeting was cancelled.