IEEE P802.11
Wireless LANs

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| November 2013 Regulatory Meeting Minutes |
| Date: 2012-11-16 |
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Abstract

This document contains minutes of IEEE 802.11 Regulatory Standing Committee meeting in Dallas.

**September 11, 2013 (Tuesday) AM1 08:00 – 10:00 local time**

1. Called to order by Chair, Rich Kennedy at 10:35 local time.
2. Assign a recording secretary
	1. Joe Levy (Interdigital) volunteered to record the minutes.
3. Administrative items
	1. The chair reviewed the items on slide 4 of Document 11-13-1256-00-0reg-dallas-meeting-plan-and-agenda-november-2013
	2. Required notices
4. Review and approve the agenda
	1. Agenda in 11-13/1256r0 accepted unanimously
	2. Chair reads anti-trust and competition slide
	3. Chair reads Introduction  (slide 7)
5. Chair explains that in order to ensure that we have the participation of John Kenney (Toyota Info-Technology) in our DSRC coexistence discussion, we will use this first time slot for the DSRC Coexistence Tiger Team meeting. John has to leave in the early afternoon to go to Washington DC to testify before Congress on this issue.
6. WebEx was set up for DSRC participation as approved by the 802.11 WG Chair
7. Reviewed the work of the DSRC Coexistence Tiger Team to date (from 11-13/1256r1)
8. John Kenney and Brian Gallagher (DENSO) – provided a document on measured interference (11-13/1360r0)
9. A recap/presentation of the document was made by Brian Gallagher via WebEx
10. There were many questions on how far the vehicle traveled during the test. Answer: 1 mile or so.
11. Jim Lansford (CSR) asked if there any attempt to record the distance at which -90dBm was reached.  Answer: It’s in the logged data, but it isn’t in the presentation.
12. John K stated that they didn’t think the range was important, just the RSS and PER as the range is a function of the environment.
13. Jim L agreed
14. Vinko Erceg (Broadcom) asked if the speed was 40 mph. Answer: Yes
15. Jim L stated that the target was 400 mph closing speed.
16. Peter Ecclesine (Cisco Systems) said that there were tests done with an airplane to increase the closing speed.
17. Was the receiver only receiving or was it transmitting also? Answer: We had 1 antenna for transmit and 2 antennas for receive.   The receiving vehicles were not transmitting.   The transmitting vehicles were transmitting at generic packet with 400 bites as noted on slide 6.
18. Jim L discussed next steps and stated that there is a proposal to request the formation of a study group to replace the Tiger Team. Chair has a presentation 11-13/1327r0, which is the current plan.
19. Peter E asked about the timing of DSRC.
20. John K said that they still don’t know, but speculating based on past rules – 2 years minimum, followed by a phase in period.  This system relies on almost no infrastructure – the system is based on radios in cars and then it is expected to grow the infrastructure side after the radios are in the cars.
21. Chair said we should focus on the NPRM coming out of the FCC. Our goal is to be sure we don’t get shut out of the band by having an agreement with the DSRC community with 802.11 for band sharing.
22. Vinko E asked: When do we have to decide it?
23. Peter E said “Now.”
24. John Notor (Notor Research) reminded the group that anyone attending a SG meeting can vote/make motions.
25. John K asked if the SG would focus on forming a TG to address coexistence with DSRC. Answer: Yes.
26. Peter said he is worried about what the market/scope would be; can it really be worldwide.
27. Jim L asked if the 802.11h approach be the way we move forward. Answer: No (from several sources).  Peter E said TGh was a bad standard and not broad enough.
28. Tevfik Yucek (Qualcomm) said we should consider the law here and follow it.
29. Vijay Auluck (Intel) said this is what we have and we should move forward on this [DSRC TT].
30. Chair said this sounds like what we did in TGh, but the automotive companies are global.
31. John K said he thinks the US and Europe are similar enough to allow us to address them now.
32. Peter E said in Europe they will be studying the systems in place now.
33. Vinko E said he is concerned with timing, as a SG and TG will take years.   We are already seeing useful information in the Tiger Team. If there are different mechanisms that require spec changes he thinks we would need a TG, but at this point I’m not convinced we need to do that.
34. John K asked if the group thinks the final resolution will require spec changes?
35. Vinko E thinks spec changes will be required.
36. Peter E said they tried in P802.11ah to go right to TG, but they said no, no, no – you need to be a SG first.
37. Vinko E asked if we could just do this in the Regulatory SC. Answer: No, the Regulatory SC can only change which channels are available.
38. Peter said if we need to change masks or behaviors then we need a SG/TG.
39. Dick Roy ( ) said he understands Vinko’s concerns; if we are to be taken seriously we need to act seriously.
40. Vinko E said if the changes are simple we could make the changes through REVmc.
41. John K said he wants to ensure that we keep working the solutions and not switch over to defining the problem.
42. Peter E said the world is looking for real solutions that will allow 802.11p to coexist with 802.11ac and maintain DSRC.
43. Chair brought the group back to the presentation 11-13/1327r0.
44. Chair stated that the SG would continue the work of the Tiger Team and move toward a TG to provide a spec for coexistence.
45. Ron Porat (Broadcom) said he doesn’t see why we don’t just stay with a Tiger Team; why would we want open this to a wider scope.  We may want to find better solutions for ITS system.
46. John K said if there is going to be an amendment, we should start it soon.  The study group is part of the path to a solution.
47. Ron said he doesn’t see the need for this.
48. Chair recessed the Regulatory SC at 9:55 am.

**September 12, 2013 (Wednesday) PM2 16:00 – 18:00 local time**

1. Chair Rich Kennedy (Self) called the meeting to order at 16:03 CST.
2. Chair shows the Agenda slide 3 and asks if there are any modifications.
3. Hearing none, the agenda is approved unanimously.
4. The chair reads Administrative Items on slides 4, 5 and 6.
5. The chair reads Introduction on slide 7.
6. The chair recaps the Tuesday AM1 meeting on DSRC Coexistence Tiger Team (on slide 8).
7. The chair shows Regulatory Summary – North America slide 9.
8. Vijay gave a very high level summary of the FCC visit last week by several people. It looks like the first report and order will come out probably Q1 in 2014. They also clarified some questions about 60 GHz use and airborne restrictions on 60 GHz use.
9. The chair shows Regulatory Summary – Europe (slide 12).
10. The chair discusses European items.
11. The chair shows Any Other Business (slide 14).
12. The next item is a new proposal from Tevfik (13/1449r1) Proposal for UNII-4 coexistence. It is an updated version of 13/1276r1.
13. The proposal was debated at length.
	1. What are the benefits, issues with and challenges involved in making changes to the DSRC spectrum allocation
14. Slide 6 of 13/1449r2 is Strawpoll 1 as conducted:
15. Do you support the proposal outlined in Slides 3, 4 and 5 in this document as part of the possible solutions that IEEE 802, after discussing it in the DSRC coexistence tiger team, might communicate to FCC for addressing the sharing problem in the UNII-4 band?
	1. 42 YES
	2. 1 NO
	3. 4 ABSTAIN
16. Chair states that this appears to be the consensus of the group.
17. Chair ask.s if there is any other business. None heard
18. Chair adjourned the meeting at 16:53 local time