IEEE P802.11  
Wireless LANs

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| Minutes of the March 2021 meeting of the IEEE 802.11 Coexistence Standing Committee | | | | |
| Date: 2021-03-31 | | | | |
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Abstract

This document contains the minutes of the March 2021 meeting of the IEEE 802.11 Coexistence Standing Committee.

At 2021-03-10T22:02+01:00 the chair calls the meeting of the IEEE 802.11 Coexistence Standing Committee (SC) to order. Andrew Myles is chair of the Coexistence SC. Guido R. Hiertz is the recording secretary of the SC.

The chair presents 11-21/217r5. At this moment, 11-21/217r5 equals 11-21/217r4. Any modifications applied to 11-21/217r4 during this meeting will be uploaded to IEEE’s Mentor server as 11-21/217r5.

At 2021-03-10T22:04+01:00 chair introduces pages four to nine of 11-21/217r5.

At 2021-03-10T22:06 the chair introduces the proposed agenda.

Comment: I uploaded 11-21/430 which discusses the 60 GHz license-exempt band.

Comment: Let’s discuss this at the end of this meeting

At 2021-03-10T22:08+01:00 the SC approves the proposed agenda with unanimous consent.

At 2021-03-10T22:10 the chair presents the following motion:

The IEEE 802 Coex SC approves 11-21-0178-00 as the minutes of its virtual meeting in Jan 2021

The chair asks for unanimous approval of this motion. Nobody objects to unanimously approve the motion.

The chair continues his presentation of 11-21/217r5.

At 2021-03-10T22:16+01:00 attendees discuss page 29 of 11-21/217r5.

Comment: Can you explain on page 29 what “Wi-Fi to Wi-Fi coexistence” is?

Comment: They had all Wi-Fi operating on the same channel.

Comment: Are all devices by the same vendor?

Comment: I don’t recall. Probably. So, there were some 30 beacons per second. Even with Wi-Fi there is interference to Wi-Fi itself.

Comment: The clients were outdoors; the APs were indoors. Building loss must be taken into account. There is 30 dB attenuation because of the building.

Comment: I don’t understand the X-axis on slide 29.

Comment: Read the original results. F20 means all devices are in the same channel. Afterwards, the primary channels are spread. They managed to get 50 beacon packets per second. With self-interference it reduced.

At 2021-03-10T22:20+01:00 the chair continues from page 30 of 11-21/217r5.

At 2021-03-10T22:22+01:00 attendees discuss.

Comment: How come that the claim that the streaming traffic does not impact Wi-Fi? LAA does not know that this is streaming data.

Comment: It is my understanding that the streaming traffic would be served over licensed spectrum.

At 2021-03-10T22:24+01:00 attendees discuss page 31 of 11-21/217r5.

Comment: We understand that Wi-Fi uses preamble detection and energy detection. Preamble detection is more conservative compared to energy detection. The trend should be that the more LAA replaces Wi-Fi, it will create an illusion for Wi-Fi that there are no devices around it because Wi-Fi does perform its backoff based on ED, then.

Comment: This study was very biased because it looked at the effect of LAA on Wi-Fi. It does not look at the effect of Wi-Fi on LAA. This could have a nasty effect on LAA because Wi-Fi impacts LAA at −62 dBm and LAA detects Wi-Fi at −72 dBm.

Comment: Without being able to detect LAA’s preamble, Wi-Fi only sees free channels.

Comment: It is a particular scenario that is tested. The LAA basestation and its clients are outdoors. All Wi-Fi APs are indoors. They also transmit to outdoor Wi-Fi clients with 30 dB attenuation. This is not an apple to apple comparison. Because clients are not positioned at the same places.

Comment: The question is this a typical scenario? In the future if LAA is used indoors, what happens then? It would be interesting to measure, too. We need to ask if this is realistic. If not, we need to ask what needs to be done to make it realistic.

At 2021-03-10T22:32+01:00 attendees discuss page 33 of 11-21/217r5.

Comment: I do have a script. I have transitioned that to IEEE staff. It runs weekly. I requested that this script be run tonight. I will ask them to run end the script on Thursday and by the end of Friday.

At 2021-03-10T22:35+01:00 attendees discuss page 35 of 11-21/217r5.

Comment: EN 303 687 version 0.0.12 is not yet officially available. There is a redline version. This version will be approved as 0.0.12 tomorrow or on Friday.

At 2021-03-10T22:38+01:00 attendees discuss page 38 of 11-21/217r5.

Comment: In today’s discussion on Narroband Frequeny Hoppers, there was a discussion to have 15 channels in 20 MHz. There was a discussion if they would do CCA in each separate. They would not. A chip maker said that a CCA for 20 MHz would be done. It is analogous to the wideband sensing.

At 2021-03-10T22:42+01:00 the chair arrives on page 39 of 11-21/217r5. At 2021-03-10T23:00+01:00 attendees discuss:

Comment: I would like to comment on page 54. A notified body is authorized to take independent decisions. It is at the notified body’s discretion to base its decision on a Harmonised Standard, a draft thereof, or anything else. A HS or a draft thereof is not required for a notified body to take a decision. Regardless of being early or stable, a draft HS has no special meaning.

Comment: You are absolutely right.

At 2021-03-10T23:02+01:00 the chair continues from page 59 of 11-21/217r5.

At 2021-03-10T23:09+01:00 attendees discuss page 65 of 11-21/217r5.

Comment: RLAN hava a co-primary allocation in some countries. Hence, there is some protection in these countries. Other regulatory regimes require RLAN to operate on non-protected basis, non-interference basis like SRD.

Comment: The EC decision is likely to protect an RLAN. Is the term RLAN defined?

Comment: Yes, the associated language will be revealed by the end of April.

At 2021-03-10T2323:12+01:00 the chair continues from page 66 of 11-21/217r5.

Comment: The dates of the upcoming ETSI TC BRAN meetings are incorrect.

At 2021-03-10T23:16+01:00 Assaf Kasher presents 11-21/430r0. Assaf concludes his presentation at 2021-03-10T23:30+01:00.

Comment: There are proposals to use more advanced mechanisms than LBT. Sensing in the direction of a very narrow beam is not useful. My colleagues and I believe in receiver-assisted sensing.

Comment: I propose we follow what is going on, we need to continue to monitor.

Comment: Please take a leading role to monitor 60 GHz.

At 2021-03-10T23:35+01:00 the chair continues from page 68 of 11-21/217r5.

Comment: Some decisions have already been taken in China.

Comment: There is nothing to really worry.

Comment: The clauses for FBE are different from LBE, one-shot LBT is permitted in a COT.

Comment: It would not be easy for us to meet the 27 µs requirement on secondary channels.

Comment: The sharing with responding devices is not described.

At 2021-03-10T23:44+01:00 the chair arrives on page 72 of 11-21/217r5.

Comment: Should we inform 802.18?

Comment: I am not sure we are yet ready.

At 2021-03-10T23:46+01:00 the chair declares the meeting of the IEEE 802.11 Coexistence SC to be adjourned.