IEEE P802.11
Wireless LANs

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| Minutes of the May 2022 meeting of the IEEE 802.11 Coexistence Standing Committee |
| Date: 2022-05-30 |
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Abstract

This document contains the minutes of the May 2022 meeting of the IEEE 802.11 Coexistence Standing Committee.

1. At 2022-05-16T22:01+02:00 the chair of the IEEE 802.11 Coexistence Standing Committee (SC) calls the meeting to order. Andrew Myles acts as chair of the SC. Guido R. Hiertz acts as recording secretary of the SC.
	1. The chair presents document 11-22/614r2. The chair reminds all attendees to pay registration fees or to withdraw from attending.
	2. The chair continues presenting his document.
2. At 2022-05-16T22:05+02:00 attendees approve the proposed agenda as presented on page 12 of 11-22/614r2.
	1. The chair continues presenting from page 13 of 11-22/614r2.
3. At 2022-05-16T22:06+02:00 the chair presents the following motion that is contained on page 17 of his document.
	1. “The IEEE 802 Coex SC approves 11-22-0617-00 as the minutes of its virtual meeting in March 2022”
	2. There is no discussion on this motion.
	3. The chair asks if there is any objection to unanimously approve 11-22/617r0.
		1. Nobody objects
	4. 11-22/617r0 is approved by unanimous consent.
4. The chair continues continues presenting from page 18 of his document. At 2022-05-16T22:16+02:00 attendees comment on page 31:
	1. Comment: During the March 2022 meeting, somebody stated that he would volunteer to conduct some measurements. In our minutes, we do not record names. Could the person contact me, please?
5. At 2022-05-16T22:20+02:00 an attendee comments on page 35 of 11-22/614r2.
	1. Comment: If ETSI TC BRAN approves EN Approval Procedure (ENAP) for EN 301 893 it will take 90 d. Before or simultaneously to ENAP, ETSI TC BRAN must submit the draft HS for EC assessment, too. This is a mandatory step even if we know that the EC currently might not have any funding to have these assessments conducted. It is our understanding that the EC works on establishing a solution under which its assessments are secured in the future.
6. At 2022-05-16T22:22+02:00 the chair continues from page 36 of 11-22/614r2 and at 2022-05-16T22:36+02:00 attendees comment on page 44:
	1. Comment: Increasing the preamble detection (PD) level to −72 dBm does not address the issue. The difference in energy detection threshold (EDT) is the core issue. At high loads, Wi-Fi devices do not receive the preamble anymore. Thus, it would be great if can harmonize the EDT level.
	2. Comment: Do you plan to present more results?
	3. Comment: There is more work done by my colleagues. Basically, they identifiy the same kind of issues.
	4. Comment: That’s good news. Then, we’ll finally have some input.
	5. Comment: I will come back once we can present something.
7. At 2022-05-16T22:38+02:00 the chair continues from page 45 of 11-22/614r2.
8. At 2022-05-16T22:40+02:00 attendees comment on page 45:
	1. Comment: Do you want to propose this to the IEEE 802.11 Working Group? Or do you want to propose this to ETSI BRAN?
	2. Comment: I just want to propose this to 802.11. PD is very much a Wi-Fi concept. ETSI TC BRAN needs to remain technology neutral. This is a recommendation to the 802.11 Working Group.
	3. Comment: I have a question regarding this ED-only mode. Was this studied in the previous documents you mentioned?
	4. Comment: Both, documents 11-21/705 and 11-21/851, concluded that if all devices use ED at −72 dBm then this is the solution for everybody.
	5. Comment: Legacy Wi-Fi operates EDT at −62 dBm. IEEE 802.11be could be forced to perform EDT at −72 dBm. If, for example, because of a high amount of traffic, PD synchronzation is lost, the whole system reverts to operating at EDT, only. Then, there PD is no more relevant because it is no more observed. That happens if you have multiple nodes spread out. Then legacy devices have a 10 dB advantage. The 802.11be throughput will be less, then. The PD threshold is really irrelevant. Raising PD from −82 dBm to −72 dBm does not address this issue. You won’t see the issue always. However, if PD-based synchronization is lost—with hidden nodes as an example—then 802.11 systems falls back to operating at ED, only.
	6. Comment: The compromise with 3GPP was that they do ED only at −72 dBm and Wi-Fi does the ED/PD combo. That’s essentially what you are saying here for the legacy vs. 802.11be issue.
9. At 2022-05-16T22:53+02:00 an attendee comments on page 48 of 11-22/614r2:
	1. ETSI TC BRAN approved EN Approval Procedure (ENAP) for EN 303 687. Befor it is sent out for ENAP, ETSI’s secretariat conducts a review. This helps to resolve editorial issues and to improve the quality of the document. Afterwards, the document will be reviewed for 90 d by National Standards Organizations (NSOs). ENAP on EN 303 687 will close on 2022-07-26. Should ETSI TC BRAN receive technical comments, it will need to resolve them. Afterwards a second ENAP may be initiated.
10. The chair continues from page 49 of 11-22/614r2 at 2022-05-16T22:54+02:00.
11. At 2022-05-16T22:57+02:00 an attendee comments on page 49 of of 11-22/614r2:
	1. Comment: Client to Client (C2C) operation is specific to LPI (Low Power Indoor) equipment. C2C does not impact VLP operation.
12. The chair continues from page 50 of 11-22/614r2 at 2022-05-16T22:59+02:00.
13. At 2022-05-16T23:04+02:00 attendees comment on page 57 of of 11-22/614r2:
	1. Comment: We want to monitor this. We need to look at the Coexistence document that this project will create. We need to be more proactive.
	2. Comment: IEEE 802.19 can always arrange a joint meeting.
	3. Comment: We will approach 802.19.
	4. Comment: Working together would be a good thing. Let’s coordinate between IEEE 802.15 and IEEE 802.11. Studies are interesting because more products use multiple radio technologies, e.g., they include UWB, Bluetooth, and Wi-Fi.
14. At 2022-05-16T23:09+02:00 the chair continues from page 58 of of 11-22/614r2. At 2022-05-16T23:18+02:00 an attendees asks if 11-22/614r2 has been posted:
	1. Comment: No I have not. I will do this after the meeting ended. R2 has some extra slides over R1.
15. At 2022-05-16T23:21+02:00 an attendee requests that for IEEE 802.11’s July meeting, we should reach out to get updates on IEEE 802.15.4ab.
16. At 2022-05-16T23:23+02:00 chair declares the meeting adjourned.