IEEE P802.11
Wireless LANs

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| IEEE 802.11bd Task Group Teleconference Minutes – March – April - May 2019 |
| Date: 2019-03-26 |
| Author(s): |
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Abstract

These are the minutes for the IEEE 802.11bd task group teleconferences between the March and May 2019 meetings.

**Minutes**

**26 March 2019**

1. Announcement: <http://www.ieee802.org/11/email/stds-802-11-tgbd/msg00050.html>
2. **Agenda:** [**http://www.ieee802.org/11/email/stds-802-11-tgbd/msg00054.html**](http://www.ieee802.org/11/email/stds-802-11-tgbd/msg00054.html)
3. The chair projected and read through the agenda
4. Chair asks members on the phone/joinme to email attendance record to Chair and Secretary
5. **Patents and Policies**
6. The chair displayed links to the IEEE policies.
7. There were no notifications from anyone regarding the call for essential patents.
8. **Changes to the agenda**
9. None
10. No objection to approving the agenda.
11. **Presentation 11-19/0366r2**
12. Discussion:
	1. Question about how station using 20MHz channel interacts with 11p stations using the secondarion 10MHz channel. After a secondary channel becomes idle, is access to the secondary channel fair between 11p station and the 11bd 20MHz station?
	2. In this presentation slide 5, the interval is shown as TBD. Value of timer can be chosen to ensure fairness.
	3. Question about sensitivity in the second channel, is it the same as the primary channel when the 20MHz device is sensing. There is imbalance.
	4. Comment on slide 8. The channelization shown is different from that in Europe. For example, control channel is 184. How do you propose to harmonize the rules.
	5. Might need different rules for US and EU, but is it possible to have one common set of rules?
	6. Is the decision to transmit a particular PPDU 10MHz or 20MHz at the upper layer or MAC/PHY?
	7. Discussion about whether upper layer chooses/indicates primary 10MHz channel within a 20MHz service channel
	8. Suggestion we have a high-level discussion about which application uses 20MHz. Primary channel needs to defined outside 802.11. How does DCC work with 20MHz?
13. **Presentation 11-19/0368r2**
14. Discussion
	1. Comment that DSRC applications have standardized congestion control mechanisms in SAE J2945/1 that uses a combination of message rate and power control based on measurement of neighbour number and channel busy ratio. ETSI ITS-G5 also has congestion control in Europe. It would be good to base any work here on congestion on existing technologies.
	2. Question: if the documents providing these mechanisms are available. Can you provide reference.
	3. Comment: ETSI standard is available free of cost. SAE standard has a cost to download it. There may be another source that describes the congestion control.
	4. Comment on cross-layer nature of the problem.
	5. Comment that multi-user channel access is the biggest problem in C-V2X, particularly the near-far problem. Not sure we want to replicate that here.
	6. Question about what the C-V2X OFDMA issues are.
	7. Duplex issue: can’t transmit and receive at the same time (different sub-frequency, but same timeslot). Near far issue: same resource but can only receive the near one.
	8. Comment: that good metric to measure is at the application: the age of information at the receiver or the interpacket reception gap. That’s better than PER (packet error ratio).
	9. Procedural question about strawpolls. Only have 15 attendees in the call.
	10. Suggstion that we don’t run strawpolls in the teleconference.
15. Secretary notified the group that March meeting minutes have been posted for review and approval will be at the May meeting.
16. Having reached the end of the agenda, the Vice-chair adjourned at 11:02am

*Attendance:* (collected from joinme user list and member emails)

Ronny Yonghi Kim (Korea National University of Transportation)

Onn Haran (Autotalks)

James Lepp (BlackBerry)

Bo Sun (ZTE)

Insun Jang (LG Electronics)

Hiroki Motozuka (Panasonic)

Joseph Levy (Interdigital)

Ioannis Sarris (u-blox)

Frank LaSita

Hanseul Hong (Yonsei University)

Stephen Sand (DLR)

Yujin Noh (Newracom)

Martin Schmidhammer (DLR)

John Kenney (Toyota ITC)

**9 April 2019**

**23 April 2019**

**7 May 2019**

**Notes:**

Document numbers referenced (e.g. 802.11-19/0000r0) are available on IEEE Mentor: <https://mentor.ieee.org/802.11/documents>