IEEE P802.11
Wireless LANs

|  |
| --- |
| Minutes for Task Group (TG) 802.11 beExtremely High ThroughputTelephone conference June 30 2019 |
| Date: 2019-07-01 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Dennis Sundman | Ericsson |  |  | dennis.sundman@ericsson.com |
|  |  |  |  |  |

Abstract

This document contains the meeting minutes for the IEEE 802.11be TG telephone conference held on June 30, 2019.

**Thursday 30 June 2019, Telephone conference**

**Introduction**

1. At 12:04 PM (ET), the Chair, Alfred Asterjadhi calls the meeting to order
2. Alfred goes through the IEEE 802 and 802.11 intellectual properties right policy and procedure and asks for potentially essential patents. Nobody speaks up.
3. Alfred reminds people to take their attendance by sending an e-mail to Dennis Sundman (dennis.sundman@ericsson.com). From the join.me app, it appears to be around 70 people in the call.
Registered attendees:
	1. Dennis Sundman (Ericsson)
	2. Alfred Asterjadhi (Qualcomm)
	3. Sameer Vermani (Qualcomm)
	4. Roya Doostnejad (Intel)
	5. Gaurav Patwardhan (HPE)
	6. Steve Shellhammer (Qualcomm)
	7. Insun Jang (LG Electronics)
	8. Junghoon Suh (Huawei)
4. Alfred announces that there will be a joint TSN/TGBE session on Tuesday EVE. The agenda will be sent on July 2nd.

**Technical Submissions**

1. 19/1021r1 – Preamble Design Harmonization, Sameer Vermani, (Qualcomm)

**Summary:** Suggests 3-4 bits in the SIG field for signaling the PHY.

**C:** On slide 4, this green colored field is 1 symbol?

**A:** I don't talk about symbols here at all. How many symbols will depend. It is just a field at this stage.

**C:** Can we somehow use .11ax?

**A:** The autodetection could be .11ax.

1. 19/0767r1 – Implicit Channel Sounding in IEEE 802.11 (Feasibility Study), Roya Doostnejad, (Intel)

**Summary:** Explitic BF feedback provides challenges. They believe implicit BF feedback is good to reintroduce. AP-STA calibration. Or local AP calibration. Each antenna is calibrated with respect to a reference antenna. It seems to work well.

**C:** Do you have any simulations comparing with the current implicit and explicit feedback?

**A:** No.

**C:** It seems complicated that for the multi-AP case we have to perform the calibration in a different manner.

**A:** Yes, it is tricky.

1. 19/0768r1 – Implicit Channel Sounding in IEEE 802.11, Roya Doostnejad (Intel)

**Summary:** Use domain/spatial/time multiplexing to perform feedback. Interpolation will be needed of course. A trigger based scheme to enable implicit channel sounding.

**C:** A problem with implicit feedback is that channel estimation may suffer because of different powers at AP and STA.
2. 19/0772r1 – Multi-AP Collaborative BF in IEEE 802.11, Roya Doostnejad (Intel)

**Summary:** Collaborative BF. Timing/synchronization across APs. Coordination and interference cancellation.
3. Alfred asks for AoB. No response.
4. Meeting adjourned at 1:48 PM (ET).