IEEE P802.11
Wireless LANs

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| IEEE 802.11 TGbb Task Group on Light Communications September, 2018 Kona Meeting Minutes |
| Date: 2018-09-10 |
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Abstract

This document contains the Task Group on Light Communications (TGbb) meeting minutes from the IEEE 802.11 Kona meeting, September 2018.

**IEEE 802.11 Task Group TGbb**

**Monday, September 10, 2018, AM2 Session**

Attendance: around 20 people

1. The IEEE 802.11 TGbb meeting was called to order at by the Chair, Nikola Serafimovski (pureLiFi). As the secretary could not attend, Volker Jungnickel (Fraunhofer HHI) recorded the minutes.

1. The Chair Nikola Serafimovski (pureLiFi) reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
	* It is reminded all to record their attendance.
2. The Chair Nikola Serafimovski (pureLiFi) introduced the schedule for the meeting
	* + Go through contributions related to channel models (doc. 1582r0 and doc. 1574r0)
		+ Go through contributions related to simulation scenarios (docs. 1423/r0, 1593r0)
		+ Go through evaluation methodology (doc. 1429r0)

It was decided not to finalize the Call for Proposals at the September meeting because this was considered unrealistic based on the current status of the required documents.

1. Tuncer Baykas (IMU) run a motion, seconded by Harry Bims (Bims Laboratories Inc.), to approve the agenda in doc 1379r1. Motion passes unanimously.
2. Tuncer Baykas (IMU) run a motion, seconded by Oliver Pengfei Luo (Huawei), to approve the minutes of the phone calls held between the July and September meeting. Motion passes.
3. Tuncer Baykas (IMU) run a motion, seconded by Volker Jungnickel (HHI) to approve the Minutes from July meeting in doc. 1251r4. Motion passes.
4. Tuncer Baykas (IMU) presented doc. 18/1109/r0 on the Reference Channel Models for LC.
	* It was again discussed that the illumination values should be represented in W/m² rather than Lumen because the Lumen value depends also on the sensitivity curve of the human eye. The value is currently given to indicate that normal lighting conditions are fulfilled.
	* Q: In Fig. 12 why D7 is different.
	* A: Because the Rx looks down and has constantly higher path loss than any other PDs.
	* Q: Do the channel impulse responses contain the LED or not?
	* A: There are both responses available in the document. The optical frequency response does not contain it, while the effective CIR contain the LED and PD models.
	* C: CIRs with mat files for all scenarios will be available on Mentor in 1603r0.
5. There was a straw poll to start comment collection for the proposed channel model document in doc. 1542r0. Comments should be submitted until 24 Sept. 2018. Y/N/A = 12/0/2
6. Straw poll: Should the channel model concerning the operating theater in doc. 1582r0. Y/N/A 0/5/9.
7. Should the Scenario 3: Hopitals from doc. 15-15-0514r0 be used in TG11bb : Y/N/A 5/0/8.
8. Volker Jungnickel (Fraunhofer) presented "LC Frontend Models" 802.11-18/1574r0.
	* Q: Slide 4 What is the bandwidth of the measurement?
	* A: 300 MHz.
	* Q: How could we add nonlinear effects of frontend model?
	* A:  We are planning to create material in the future and group may add effects in the future.
	* Q: The LED which is used one is red. Will you provide results with a white LED?
	* A: We may provide white led in the future.
	* C: We incorporate what is presented into the channel document and provide a simple model for the simulations.
	* A: It could be included as frontend model.

Meeting was recessed until Tuesday September 11, 2018 in PM2.

**Tuesday, July 10, 2018, PM2 Session**

Attendance: around … people