IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IEEE 802.11 TGbb Task Group on Light Communications  November 30th Teleconference Meeting Minutes | | | | |
| Date: 2022-11-30 | | | | |
| Author: | | | | |
| Name | Affiliation | Address | Phone | Email |
| Chong Han | pureLiFi |  |  | Chong.han@purelifi.com |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document contains the Task Group on Light Communications (TGbb) teleconference meeting minutes

**IEEE 802.11 Task Group TGbb**

**November 30, 2022, 2:00PM (ET)**

1. The IEEE 802.11 TGbb meeting was called to order at by the Chair, Nikola Serafimovski (pureLiFi). Chong Han (pureLiFi) recorded the minutes.

1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
   * It is reminded all to record their attendance through the IMAT system.
2. The Chair introduced the overall agenda in doc. [11-22/2078r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2078-00-00bb-30-november-2022-conference-call-agenda.pptx) for the call.

* Agenda Items to be discussed (updated)
  + Agenda Agreement
  + Submissions to be discussed
    - D4.1 comment resolution
    - Doc. 11-22-1925r4
    - Doc. 11-22-2078r0
    - Doc. 11-22-2081r1
    - Motion for SA recirculation
  + AOB

1. TE presented the doc. [11-22/1925r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1925-04-00bb-p802-11bb-initialballot-comments.xlsx) for D4.1 comment resolution
   * Updated the current status of comments to be resolved. There are multiple suggested text inputs for the comment resolution. The group decided to start with the contribution [11-22/2062r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2062-00-00bb-lc-mtmr-clause-new-text.docx) first.
2. TE presented the doc. [11-22/2062r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2062-00-00bb-lc-mtmr-clause-new-text.docx) with text input for 32.3.5 (Multiple transmit chains and multiple receive chains).
   * Sufficient seperation mechanisms (angular and spatial diversity) are considered for the scenario when multiple light cones cover the same area or some area in common.
   * The Hybrid RF and LC operation is proposed for the worst scenario which does not aim to change the IEEE802.11 standard. Disscussion on the benefits and disadvantages of introducing the hybrid RF and LC operation. It’s not clear how the RTS/CTS mechanism works with the proposal. Transmissions via multiple MACs have been considered for such scenarios in the IEEE802.11.
   * The PAR of the IEEE P802.11bb does not include the usage of RF.
   * **Strawpoll** 
     + Would you support a hybrid mode if a future contribution addressed some of the issues brought up today?
     + Y2 N4 No Answer 2
3. Robert Stacey presented the doc. [11-22/2081r1](https://mentor.ieee.org/802.11/dcn/22/11-22-2081-01-00bb-lc-mimo.docx)
   * Robert presented the changes suggested for the CIDs I-48 and I-14.
   * Sptial multiplexing may be integrated with the contribution in the doc. [11-22/2062r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2062-00-00bb-lc-mtmr-clause-new-text.docx).
   * Structural changes involving moving text from other subclauses to the 32.3.2 (Transmitter block diagram) are proposed.
   * The way of spliting the wavelength range is not backed up by any contribution in the group yet. Four streams could be supported if the range is further splited. The idea existed in the literature. But no measurement results have been seen by the group yet.
   * Robert intergrated examples proposed in the doc. [11-22/2062r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2062-00-00bb-lc-mtmr-clause-new-text.docx) to the doc. [11-22/2081r2](https://mentor.ieee.org/802.11/dcn/22/11-22-2081-02-00bb-lc-mimo.docx).
4. TE presented the doc. [11-22/1925r4](https://mentor.ieee.org/802.11/dcn/22/11-22-1925-04-00bb-p802-11bb-initialballot-comments.xlsx) for D4.1 comment resolution
   * CID I-14 is revised.
   * CID I-48 is revised.
   * The doc. [11-22/1925r5](https://mentor.ieee.org/802.11/dcn/22/11-22-1925-05-00bb-p802-11bb-initialballot-comments.xlsx) is uploaded to the mentor.
5. Motion

**Approve the resolutions in doc. 11-22/1925r5 for the comments in the initial SA ballot against TGbb Draft 4.1**Move: Nikola Serafimovski

Second: Volker Jungnickel

Y/N/A 4/0/0

Montion passes.

1. Motion

**Having approved comment resolutions for all of the comments in   
doc. 11-22/1925r5 for the initial SA ballot against TGbb Draft 4.1,  
Instruct the editor to prepare Draft 5.0 incorporating these resolutions and ask for a 30-day re-circulation ballot.**

Move: Matthias Wendt

Second: Volker Jungnickel

Y / N / A 5 / 0 / 0

Montion passes.

The meeting adjourned at 4:03PM ET.

Attendance

|  |  |
| --- | --- |
| **Name** | **Affiliation** |
| Tuncer Baykas | Ofinno |
| Bluschke, Andreas | Self |
| Jungnickel, Volker | Fraunhofer Heinrich Hertz Institute |
| Jennifer Santulli | IEEE SA |
| Chong Han | pureLiFi |
| Serafimovski, Nikola | pureLiFi |
| Stacey, Robert | Intel |
| Wendt, Matthias | Signify |
| Yvonne | IEEE SA |