IEEE P802.11 Wireless LANs

|  |
| --- |
| Proposed text for 4.3  |
| Date: 2021-02-26 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Chong Han  | pureLiFi |  |  | chong.han@purelifi.com  |
| Nikola Serafimovski  |  |  | nikola.serafimovski@purelifi.com |
| Stephan Berner |  |  | stephan.berner@purelifi.com |
| Mostafa Afgani |  |  | Mostafa.afgani@purelifi.com |
| Tamas Weszely |  |  | Tamas.weszely@purelifi.com |

Abstract

This document provides text to be incorporated in the TGbb draft 4.3.

### 4.3.30 Light Communication (LC) STA

A LC STA supports LC features identified in Clause 10 (MAC sublayer functional description), Clause 11 (MLME), Clause 12 (Security), Clause 31 (Light Communication (LC) MAC specification), and Clause 32 (Light Communication (LC) PHY specification).

The main PHY features in a LC STA that are not present in an HE STA are the following:

* Optical front end
* Optional use of LC Optimised PHY

The main MAC features in a LC STA that are not present in an HE STA are the following:

* Optional support for fast session transfer (FST) in the multi-band capable devices supporting light and other sub-300 GHz RF bands

The LC MAC that supports the LC common mode PHY may consist of a subset of functionalities in the 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification). 10.3 (DCF), 10.4 (MSDU, A-MSDU, and MMPDU fragmentation), 10.5 (MSDU, A-MSDU, and MMPDU defragmentation), and 10.6 (Multirate support) are required.