IEEE P802.11 Wireless LANs

|  |
| --- |
| Proposed text for 17.3.10.6 CCA requirements |
| Date: 2021-05-07 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Chong Han  | pureLiFi |  |  | chong.han@purelifi.com  |
| Nikola Serafimovski  |  |  | nikola.serafimovski@purelifi.com |
| Mostafa Afgani |  |  | Mostafa.afgani@purelifi.com |
| Tamas Weszely |  |  | Tamas.weszely@purelifi.com |

Abstract

This document is to propose the changes needed for the LC in the CCA mechanism. The base documents are IEEE Std. 802.11-2016.

***Discussion: Highlighted text preceded by “Discussion” are not to be copied into the TGbb Draft. Such text provides rationale for the proposed changes.***

History

R0: proposal of one paragraph to explain the difference of the CCA in LC

### 17.3.10.6 CCA requirements

***Discussion: this document is to add a paragraph to explain the differences in the CCA in LC and radio communication systems.***

*Add a paragraph after the 7th paragraph as follows:*

In LC, CCA-ED may be required for carrier sensing. Due to the directional transmissions, non-AP LC STAs may not be able to sense the ongoing transmissions from a peer non-AP LC STA. Hence, the CCA-ED may not work on the first round of UL transmission. With the aid of UL repeater in the LC AP, other non-AP LC STAs may be able to receive the repeated signals from the LC AP which enables the CCA-ED as in the radio communication systems. Light signals are converted to radio frequency signals before comparing to the dot11OFDMEDThreshold.