IEEE P802.11
Wireless LANs

|  |
| --- |
| Proposed TGme Resolution for Use of WUR OOK Modulation and MC-OOK Text in D3.0 |
| Date: 2023-05-05 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Joseph LEVY | InterDigital, Inc. | 111 W 35th St., NY, New York | +1 631.622.4239 | joseph.levy@interdigital.com |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document provides proposed changes to 802.11REVme D3.0 to address the ongoing discussions related to the use of the term MC-OOK in the specification.

There have been significant discussions in TGme regarding how to clarify the WUR clauses so that the following are true:

1. WUR PPDUs consist of a “standard” 802.11 PPDU header, followed by an OOK modulated WUR-Sync and WUR-Data fields.
2. The WUR OOK modulated fields can be generated using the MC-OOK modulation technique.
3. There is no requirement that MC-OOK must be used to generate the WUR OOK signal, any technique may be used as long as the generated signal meets the requirements specified in clause 30 Wake-Up Radio (WUR) PHY specification.
4. MC-OOK is a preferred method for generating WUR OOK signals, as it is easily implemented using OFDM transmitter hardware.
5. The MC-OOK parameters provided in Clause 30 and Appendix AC provide insight as to how MC-OOK may generate the WUR OOK signals.

Attached to this contribution are red-lined versions of Clause 29, Clause 30, and Appendix AC that contain changes to address these issues.

The proposed changes:

1. Refer to the modulation used in the WUR-Sync and WUR-Data fields as WUR OOK modulation. Previously this was referred to an MC-OOK modulation.
2. Specified requirements for WUR OOK modulation are shall requirements.
3. The specification states that the WUR OOK modulation may be generated by using the MC-OOK modulation technique.
4. The specification states that when using the MC-OOK modulation technique the parameters and configuration provided in the specification for MC-OOK should be used.

Summary of changes:

1. No changes were necessary in clause 4.3.17
2. In clause 29, changes are only made to the 3rd paragraph in clause 29.6.1, renaming MC-OOK to be WUR OOK.
3. In clause 30 changes are made in clauses: 30.1, 30.3.4.1, 30.3.4.2, 30.3.4.3, 30.3.5.7, 30.3.5.9, 30.3.6, 30.3.7, 30.3.8, 30.3.9.3.2, 30.3.9.3.3, 30.3.9.3.4, 30.3.10.1, 30.3.10.2, 30.3.11, 30.3.12.5, 30.3.15, 30.4.1, and 30.4.2.
4. There are changes made in In Annex AC.
5. No changes were made to any of the Figures.

Please see the attached, red-lined clauses and appendix for the detailed changes.

**** **** ****

**References:**