IEEE P802.11  
Wireless LANs

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| LB202-non-ofdm-CIDs | | | | |
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Abstract

This submission contains LB202 comments related to non-OFDM usage:

CIDs 3123, 3122, 3121.

**CID 3123**

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| 3123 | 2254.01 | 19 |  |  | Generally separate clause 19 from implicit support of Clauses 16/17. | A separate presentation will be made by the commenter |

**Discussion:**

**Awaiting presentation from the commenter**

**CIDs 3122, 3121**

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| 3122 | 2254.17 | 19.1.2 |  |  | "Introduction". This clause specifies that a 2.4GHz OFDM clause 19 device must support DSSS and CCK. Commonly known as an 11b/g device. There is a good case that OFDM only devices could exist without the need for the extra hardware and software required to support DSSS and CCK, let's call it 11g. Similarly there is a good case that devices that support 11b as well could exist, let's call them 11b/g. Hence, it is time for the standard to allow this distinction. If vendors wish to make 11g devices, or 11b devices or 11b/g devices then the standard should allow that and the distinction is very clear. | Clause 19.1.2 to read "The ERP draws from Clause 18 (Orthogonal frequency division multiplexing (OFDM) PHY specification) to provide payload data rates of 6, 9, 12, 18, 24, 36, 48, and 54 Mb/s. |

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| 3121 | 2254.09 | 19.1.1 |  |  | Separate out the close coupling between Clause 19 and clauses 16 and 17. Clause 19 should refer to OFDM. If it is deemed that a Clause 19 device must support must also support clause 16 and 17 PHY then so be it, but let's state that sperately instead of this close coupling. It is time htat we made this clause agree with the common terminology that is used, i.e. 11b is Clause 16/17, and 11g is Clause 19 an, this is important 11b/g, is exactly what it says, a device that supports DSSS/CCK and OFDM at 2.4GHz. This comment is just for clause 19.1.1 "General" | Replace "This clause specifies further rate extension of the PHY for the DSSS system of Clause 16 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) and the extensions of Clause 17 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification). Hereinafter the PHY defined in thisclause is known as the ERP. This PHY operates in the 2.4 GHz ISM band. " with "This clause specifies the PHY entity for an orthogonal frequency division multiplexing (OFDM) system operating in the 2.4GHz ISM band. Hereinafter the PHY defined in this clause is known as the ERP". |

**Discussion:**

**CID 3122 addresses text in 19.1.2, and CID 3121 addresses text in 19.1.1. Both subclauses are shown below:**

**19.1.1 General**

This clause specifies further rate extension of the PHY for the DSSS system of Clause 16 (DSSS PHY

specification for the 2.4 GHz band designated for ISM applications) and the extensions of Clause 17 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification). Hereinafter the PHY defined in this clause is known as the ERP. This PHY operates in the 2.4 GHz ISM band.

**19.1.2 Introduction**

The ERP builds on the payload data rates of 1 and 2 Mb/s, as described in Clause 16 (DSSS PHY

specification for the 2.4 GHz band designated for ISM applications), that use DSSS modulation and builds on the payload data rates of 1, 2, 5.5, and 11 Mb/s, as described in Clause 17 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification), that use DSSS and CCK. The ERP draws from Clause 18 (Orthogonal frequency division multiplexing (OFDM) PHY specification) to provide additional payload data rates of 6, 9, 12, 18, 24, 36, 48, and 54 Mb/s. Of these rates, transmission and reception capability for 1, 2, 5.5, 6, 11, 12, and 24 Mb/s data rates is mandatory.

**The commenter proposed to change the above text to:**

**19.1.1 General**

This clause specifies the PHY entity for an orthogonal frequency division multiplexing (OFDM) system operating in the 2.4GHz ISM band. Hereinafter the PHY defined in this clause is known as the ERP.

**19.1.2 Introduction**

The ERP draws from Clause 18 (Orthogonal frequency division multiplexing (OFDM) PHY specification) to provide payload data rates of 6, 9, 12, 18, 24, 36, 48, and 54 Mb/s.

**To be discussed Weds PM2.**

**Proposed resolution:**