IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Proposed Draft Text Scope and EHT PHY Functions | | | | | | Date: 2020-08-24 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Youhan Kim | Qualcomm |  |  | youhank@qti.qualcomm.com | |

Abstract

This document contains proposed draft text for Scope and EHT PHY functions.

**Revision History:**

R0: Initial version.

33.X1.Y1 Scope

The services provided to the MAC by the EHT PHY consist of the following protocol functions:

1. A function that maps the PSDU received from the MAC into a PPDU for transmission to one or more receiving STAs.
2. A function that defines the characteristics and method of transmitting and receiving data through a wireless medium between two or more STAs. Depending on the PPDU format, these STAs support a mixture of EHT, Clase 27 (High efficiency (HE) PHY specification), Clause 21 (Very high throughput (VHT) PHY specification), Clause 19 (High-throughput (HT) PHY specification), Clause 18 (Extended Rate PHY (ERP) specification), Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification), Clause 16 (High rate direct sequence spread spectrum (HR/DSSS) PHY specification) and Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) PHYs.

33.X1.Y2 EHT PHY functions

33.X1.Y2.1 General

The EHT PHY contains two functional entities: the PHY function, and the physical layer management function (i.e., the PLME). These functions are described in detail in 33.X2 (EHT PHY) and 33.X3 (EHT PLME). The EHT PHY service is provided to the MAC through the PHY service primitives defined in Clause 8 (PHY service specification). The EHT PHY service interface is described in 33.X4 (EHT PHY service interface).

33.X1.Y2.2 PHY management entity (PLME)

The PLME performs management of the local PHY functions in conjunction with the MLME.

33.X1.Y2.3 Service specification method

The models represented by figures and state diagrams are intended to be illustrations of the functions provided. It is important to distinguish between a model and a real implementation. The models are optimized for simplicity and clarity of presentation.

The service of a layer is the set of capabilities that it offers to a user in the next higher layer. Abstract services are specified here by describing the service primitives and parameters that characterize each service. This definition is independent of any particular implementation.

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