IEEE P802.11  
Wireless LANs

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| Resolutions to CIDs 15935 and 16150 | | | | |
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| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Osama Aboul-Magd | Huawei Technologies |  |  | osama.aboulmagd@huawei.com |
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Abstract

This document includes proposed resolutions to CIDs 15935 and 16150.

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 15935 | 37.31 | 3.2 | Aren't all MU PPDUs "downlink" MU PPDUs? | Why do we need a definition of "downlink MU PPDU"? | Revised  The word downlink is used to differentiate from the uplink case. A new definition for uplink MU PPDU is added.  TGax Editor to make changes in 11-18/xxxxr0 related to CID 15935 |
| 15943 | 679.01 | T | Annex T should be updated to discuss BSS color as another method (for HE BSSs) to use for overlapping BSSs, and to give recommendations on its usage. | Add recommendations on use of BSS color to Annex T. | Transfer to Abhi |
| 16150 |  |  | An S-MPDU is a type of MPDU, so "MPDU or S-MPDU" is pleonastic | Delete "or S-MPDU" in "MPDU or S-MPDU" throughout | Rejected  S-MPDU is different from MPDU. MPDU is a self contained MAC frame while the S-MPDU is an A-MPDU with a single MPDU and EoF is equal to 1. They are not pleonastic. |

**CID 15935**

The CID referes to the definition:

**downlink (DL) high efficiency (HE) multi-user (MU) physical layer protocol data unit (PPDU):** a downlink OFDMA or MU-MIMO PPDU that uses HE MU PPDU format.

Editor’s note from 11-18/1123rx

There is something missing in this definition; it essentially defines a DL HE MU PPDU as an HE MU PPDU. Why even use the term DL HE MU PPDU if that is the case?

VHT definition:

**multi-user (MU) physical layer (PHY) protocol data unit (PPDU):** A PPDU that carries one or more PHY service data units (PSDUs) for one or more stations (STAs) using the downlink multi-user multiple input, multiple output (DL-MU-MIMO) technique.

The resolution is to use VHT definition is the basis for the HE definition and add a new definition for the UL.

***TGax Editor to do the changes as follows***

**Downlink (DL) high efficiency (HE) multi-user (MU) physical layer (PHY) protocol data unit (PPDU):** A PPDU that carries one or more PHY service data units (PSDUs) for one or more stations (STAs) using the downlink multi-user multiple input, multiple output (DL-MU-MIMO) and/or orthogonal frequency division multiple access (OFDMA) techniques.

**Uplink (UL) high efficiency (HE) multi-user (MU) physical layer (PHY) protocol data unit (PPDU):** A PPDU that carries one PHY service data unit (PSDU) for one station (STA) using orthogonal frequency division multiple access (OFDMA) technique.

**References:**