### **IEEE P802.11 Wireless LANs**

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| PDT AMP Uplink PPDU Format | | |
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**Introduction**

This document provides proposed draft text for IEEE 802.11bp draft.

The following Motions apply to this PDT:

* **PM-8**: IEEE 802.11bp shall specify, in 2.4 GHz, an AMP uplink PPDU for AMP STA supporting active transmission that contains an AMP-Sync field and AMP-Data field. Inclusion of an AMP-SIG field in the AMP uplink PPDU is TBD.
  + The bandwidth of the AMP uplink PPDU is less than 20 MHz.

[Motion #11, [1] and [8]]

* **PM-24**:
  + 11bp shall specify, in 2.4 GHz, an AMP UL PPDU for backscatter non-AP AMP STAs that contains an AMP-Sync field and an AMP-Data field.
  + Note: This AMP UL PPDU is within one excitation field of an AMP DL PPDU.

[Motion #42, [1], [44], [45] and [46]]

* **PM-45**
  + 11bp shall specify an AMP-S1G Uplink PPDU supporting uplink transmission for backscattering AMP STA in sub-1 GHz. AMP-S1G Uplink PPDU contains an AMP-Sync field and AMP-Data field.

[Motion #96, [1] and [97]]

***TGbp editor: Please add the following subclause 40.3.2.2 and 40.4.2.2:***

**40.3.2.2 UL AMP PPDU formats**

There is one AMP Uplink PPDU format: NAMETBD1. The NAMETBD1 is transmitted either by an active AMP non-AP STA or a backscatter AMP non-AP STA. For an active AMP non-AP STA, the NAMETBD1 is defined for less than 20MHz bandwidth. For backscatter AMP non-AP STA, the NAMETBD1 is transmitted within an excitation field of an AMP DL PPDU transmitted to a backscatter STA. Figure 40-TBD1 shows the NAMETBD1 format.

**Figure 40-TBD1 – NAMETBD1 format**

AMP-Sync

AMP-Data

The fields of the AMP Uplink PPDU formats are summarized in Table 40-TBD1.

**Table 40-TBD1 – Fields of the AMP Uplink PPDUs**

|  |  |
| --- | --- |
| **Field** | **Description** |
| AMP-Sync | AMP Uplink Synchronization field (see 40.3.8.3.1) |
| AMP-Data | AMP Uplink Data field carrying the PSDU (see 40.3.9) |

**40.4.2.2 UL AMP PPDU formats**

There is one AMP Uplink PPDU format: NAMETBD1 (see 40.3.2.2). The NAMETBD1 is transmitted by a backscatter AMP non-AP STA.