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

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| PDT AMP Downlink 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-5**: IEEE 802.11bp will specify, in 2.4 GHz, an AMP Downlink PPDU containing at least an 802.11 preamble field, an AMP-Sync field and an AMP-Data field. Inclusion of an AMP-SIG field is TBD.
  + The details of the 802.11 preamble field are TBD.
  + Additionally, for transmission to backscatter STAs there will be one or more Excitation fields
  + Additionally, for transmission to backscatter STAs there may be more than one AMP-Data field
    - Additionally, AMP-Sync and AMP-SIG field may precede each AMP-Data field
  + Name of this Downlink PPDU is TBD.

[Motion #8, [1] and [7]]

***TGbp editor: Please add the following subclause 40.3.2.1:***

**40.3.2.1 DL AMP PPDU formats**

There are two AMP Downlink PPDU Formats: NAMETBP1 and NAMETBD2. The NAMETBD1 is transmitted to a non-backscatter STA and the NAMETBD2 is transmitted to a backscatter STA. Figure 40-TBD1 shows the NAMETBD1 format and Figure 40-TBD2 shows the NAMETBD2 format.

**Figure 40-TBD1 – NAMETBD1 format**



**Figure 40-TBD2 – NAMETBD2 format**



The fields of the AMP Downlink PPDU formats are summarized in Table 40-TBD3.

**Table 40-TBD3 – Fields of the AMP Downlink PPDUs**

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| --- | --- |
| **Field** | **Description** |
| L-STF | Non-HT Short Training field (see 40.3.8.2.1) |
| L-LTF | Non-HT Long Training field (see 40.3.8.2.1) |
| L-SIG | Non-HT SIGNAL field (see 40.3.8.2.1) |
| RL-SIG | Repeated Non-HT SIGNAL field (see 40.3.8.2.1) |
| U-SIG1 | Universal SIGNAL field 1 (see 40.3.8.2.1) |
| U-SIG2 | Universal SIGNAL field 1 (see 40.3.8.2.1) |
| AMP-Excitation | AMP Excitation (see TBD) |
| AMP-Sync | AMP Downlink Synchronization field (see 40.3.8.2.2) |
| AMP-Data | AMP Downlink Data field carrying the PSDU (see 40.3.9) |