IEEE P802.11
Wireless LANs

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| Draft 11bd MAC Specification Text  |
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Abstract

This submission proposes the draft MAC specification text for 802.11bd D0.1:

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Revisions:

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

**9.2.5 Duration/ID field (QoS STA)**

**9.2.5.1 General**

***TGbd editor: add the following paragraph at the end of 9.2.5.1:***

The value in the Duration/ID field in a frame transmitted by an NGV STA is further defined in 32.x (**Coexistance with 11P STAs**).

**9.7 Aggregate MPDU (A-MPDU)**

**9.7.1 A-MPDU format**

***TGbd editor: change subclause 9.7.1 as following (there is no change to the text not shown):***

……

In an HT or DMG PPDU, the final A-MPDU subframe is not padded. In a VHT or S1G PPDU, padding is added as described below. In an NGV PPDU, the final A-MPDU subframe is not padded.

……

**9.7.3 A-MPDU contents**

***TGbd editor: change the first paragraph in subclause 9.7.1 as following:***

In a non-DMG PPDU, an A-MPDU is a sequence of A-MPDU subframes carried in a single PPDU with one

of the following combinations of RXVECTOR or TXVECTOR parameter values:

— The FORMAT parameter set to VHT

— The FORMAT parameter set to HT\_MF or HT\_GF and the AGGREGATION parameter set to 1

— The FORMAT parameter set to S1G, S1G\_DUP\_1M, or S1G\_DUP\_2M and the AGGREGATION

parameter set to 1

— The FORMAT parameter set to NGV

**32 NGV MAC Specification**

***TGbd editor: add the following subclause in clause 32 (NGV MAC Specification):***

**32.x Coexistance with 11P STAs**

An NGV STA shall transmit group-addressed frames in 11p PPDU if the NGV STA detects at least a 11p STA within the TBD duration.

In a TXOP where an NGV STA transmits a PPDU shall include only one frame exchange.

When an NGV STA transmits an individual-addredded Managemnt frame in a 11p PPDU or an individual-addredded QoS Data frame in a 11p PPDU, the Duration/ID field in the frame shall be set to a value that is equal to the sum of SIFS, the transmission of the solicited Ack frame, TBD additional value.

NOTE----The transmission time is totally decided by the data rate of the soliciting frame.

When an NGV STA transmits an Ack solicited by an individual-addredded Managemnt frame in a 11p PPDU or an individual-addredded QoS Data frame in a 11p PPDU, the Duration/ID field in the Ack frame shall be set to a TBD additional value.

When an NGV STA transmits a group-addressed frame in 11p PPDU, the Duration/ID field in the group-addressed frame shall be set to a TBD value.

An NGV STA assumes that a 11p neighbour STA exists if one of the following conditions is true:

* Within TBD duration, an Ack frame in 11p PPDU is detected whose Duration/ID field has no TBD value.
* Within TBD duration, an individual-addressed frame in 11p PPDU isdetected whose Duration/ID field has no TBD value.
* Within TBD duration, a group-addressed frame in 11p PPDU isdetected whose Duration/ID field has no TBD value.