### IEEE P802.11 Wireless LANs

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| 11ax D0.5 Spec Texts: Revision for NAV Setting Rule under Immediate Response | | | | |
| Date: 2016-11-05 | | | | |
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Abstract

This submission proposes revised spec texts for NAV setting proposal in 16/1195

Revisions:

* Rev 0: Initial version of the document.

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 D0.5 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax D0.5 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.***

**Discussion:**

In 16/1195, the author proposes to revise the NAV setting rule by replacing the rule “not updating its NAV when the RA of the frame is equal to the STA’s own MAC address” with “not updating its NAV whner the STA is solicited for an immediate response.” The spec texts is then proposed in 16/1173r2.

Receive two comments afterwards for this change.

Comment 1: If a STA is not an HE STA, then the STA should not be affected by this change. Hence, propose to have texts for legacy compatibility

Comment 2: If a STA is the TXOP holder, then the STA shall not update its NAV from the frame that is solicited by the STA. Traditionally, this is covered by the rule “not updating its NAV when the RA of the frame is equal to the STA’s own MAC address.” When we have the new rule, we should consider the case for TXOP holder as well.

These two comments are valid comments that require technical change. Propose spec texts below to ensure technical correctness.

**Propose:**

***TGax editor: Modify the texts on page 92 line 50 in 10.3.2.4 Setting and resetting the NAV of TGax D0.5 as the following. Changes are marked with red color:***

A STA that receives at least one valid frame in a PSDU can update its NAV with the information from any  
valid Duration field in the PSDU. If the STA is not an HE STA, and the received frame’s RA is equal to the STA’s own MAC address, the STA shall not update its NAV. If the STA is an HE STA, and ~~When~~ the STA is solicited for an immediate response by the PPDU carrying the received frame, the STA shall not update its NAV.(#2905) If the STA is an HE STA, the STA is a TXOP holder, and the frame is solicited by the STA, then the STA shall not update its NAV.

***TGax editor: add the underlined red texts in 25.2.2 Updating two NAVs of TGax D0.5 as the following:***

A STA shall update the intra-BSS NAV with the duration information indicated by the received frame in a  
PSDU if and only if all the following conditions are met:(#164)  
— The frame is identified as intra-BSS according to the rule described in 25.2.1 (Intra-BSS and interBSS frame detection)(#164)(#1466)  
— The indicated duration information is greater than the STA's current intra-BSS NAV value(#164)  
— The STA is not solicited an immediate response by the PPDU carrying the frame.(#2905)

—The frame is not solicited by the STA if the STA is a TXOP holder