IEEE P802.11  
Wireless LANs

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| LB188 - Comment Resolution | | | | |
| Date: Sept 20, 2012 | | | | |
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Abstract

This document provides resolution for the following CIDs:

6399

The comments are based on D3.0.

Edits for the proposed resolutions are based on D3.0.

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| **CID** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Changes** |
| 6399 | 10.39.4 | 162 | 37 | this rule may cause some problems when txop sharing is used. As the illustration of figure 9-19b(P127), when AP initiated a TXOP by a MU PPDU, all the mu users(STA-1~STA-3) will not update their NAV because of RA matching. And the ACK policys of some MU users(STA-2 and STA-3) are "Block Ack", it means they just record the state, and they can contend for the channel right after the VHT MU PPDU is ending(because of NAV not update). As the figure 9-19b, if STA-2 or STA-3 can't hear STA-1's BA, the conflict may happen. | It is better for all the other target recipients to update the NAV when receiving a VHT MU PPDU, except the one immediately responds to the VHT MU PPDU. Change as "A VHT STA shall update its NAV using the Duration/ID field value in any frame that does not have an RA matching the STA's MAC address or does have an RA matching the STA's MAC address but the frame is an VHT MU PPDU and that was received in a 20 MHz PPDU......" or "A VHT STA shall update its NAV using the Duration/ID field value in any frame that does not have an RA matching the STA's MAC address or does have an RA matching the STA's MAC address but the frame is an VHT MU PPDU and does not solicit the STA to give a immediate response and that was received in a 20 MHz PPDU......" |

**Discussion:**

Clause 10.39.4 mentions the case that a VHT STA will “update its NAV using the Duration/ID field value in any frame that does not have an RA matching the STA’s MAC address”.

The question is in the MU PDDU, does a VHT STA shall update its NAV by using the value of its own Duration/ID field. Otherwise, it may start to content the channel after receiving its frame.

Alternativly, without any change to the specification, an AP can protect the VHT MU PPDU TXOP with RTS/CTS. It is up to the AP to decide what to do.

**Proposed Response:**

CID #6399: Revised

**Proposed Resolution Text:**

Instrcut the editor to add a note below Figure 9-19b, page 127, line 45.

NOTE: Considering the potential hidden node issue among the MU PPDU receivers within a TXOP, an AP can protect the immediate response by preceding the MU PPDU with RTS/CTS exchange or CTS-to-self transmission.