IEEE P802.11  
Wireless LANs

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| LB188 CID Followup | | | | |
| Date: 2012-09-17 | | | | |
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Abstract

This document proposes revised resolutions to 5 CIDs previously considered in document 1073r1.

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| 6824 | 9.28.3 | 138 | 31 | T | The statement "In an MFB response solicited by an MRQ that was carried in a VHT NDP Announcement frame, the MFB shall be computed based on the VHT NDP following the VHT NDP Announcement frame." was redundant with P137L10 " in the case of a VHT NDPAnnouncement carrying the MRQ, based on the subsequent VHT NDP......" | Remove this sentence. |

**Resolution**: Accept

**Discussion**: The sentence does repeat what has been said in the previous page. We agre that the paragraph starting page 138 line 31 should be removed.

**Change**: as per comment.

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| 6826 | 9.28.3 | 138 | 54 | T | P138L43 states that "If the MFB is in the same MPDU as a VHT Compressed Beamforming frame", while P138L54 states that "For unsolicited MFB that is not in the same PPDU as a VHT Compressed Beamforming frame". Please clarify whether to use MPDU or PPDU to make the statements consistent. | Please clarify whether to use MPDU or PPDU to make both statements consistent. |
|  |  |  |  |  |  |  |

**Resolution**: Accept

**Discussion**: “MPDU” is appropriate in this context as such we propose to change “PPDU” to “MPDU” in line 54.

**Change**:

*[Note to editor: change paragraph on P138 L54 as follows]*

For unsolicited MFB that is not in the same ~~PPDU~~ MPDU as a VHT Compressed Beamforming frame, the N\_STS subfield of the MFB subfield of VHT variant HT Control field shall be set to an equal or smaller value than the RXVECTOR parameter NUM\_STS of the received PPDU from which the MFB parameters are estimated.

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| 6681 | 9.28.3 | 139 | 27 | T | "NOTE 1--If a STA fails to respond immediately to an MRQ". Tehre is no such a requirement as immediate response to an MRQ, so there canno be a failure | chang to: "NOTE 1--If a STA does not respond immediately to an MRQ ... " |

**Resolution**: Agree

**Discussion**: Current language, especially the use of the word “fails”, seems to imply that STA is required to respond immediately (i.e. in the same TXOP) to an MRQ. However this is not in fact a requirement, as commentor points out. We agree with the commentor that language should be changed accordingly.

**Change**: as per comment.

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| 6828 | 9.28.3 | 139 | 6 | T | It is not correct to use the variant "NSTS" here. The variant "NSTS" is defined in section 22.3.10.11.1 to indicates the number of space-time streams in a VHT SU PPDU. While here the intention is to indicate the value of N\_STS field in an MFB. | Replace "NSTS" with "N\_STS" and add clarification that "N\_STS is the value of N\_STS subfield". |
| 6829 | 9.28.3 | 139 | 8 | T | It is not correct to use the variant "NSTS,u" here. The variant "NSTS,u" is defined in section 22.3.10.11.1 to indicates the number of space-time streams for user u in a VHT MU PPDU. While here the intention is to indicate the value of N\_STS field in an MFB for user u. | Change to:  "If the MFB is based on measurement to user u's streams in an MU PPDU, the first N\_STS space-time streams correspond to columns Mu + 1,..,Mu + N\_STS of the spatial mapping matrix Q, (Mu are defined in 22.3.10.11.1 (Transmission in VHT format)) and N\_STS is the value of N\_STS subfield". |

**Resolution**: counter

**Change**: Agree text is not well drafted. We propose changes to the paragraph.

[*Note to editor: change text as follows*]

For an MFB (solicited or unsolicited) that is based on an SU or MU PPDU, if the N\_STS subfield is set to a value *NSTS* which is a smaller value than the RXVECTOR parameter NUM\_STS, the MFB responder shall estimate the recommended MCS under the assumption that the MFB requester will transmit the first *NSTS* space-time streams in the corresponding PPDU carrying MRQ. If the MFB is based on an SU PPDU the first *NSTS* space-time streams correspond to columns 1, ..., *NSTS* of the spatial mapping matrix *Q*. If the MFB is based on an MU PPDU, for the *u*-th user, the first *NSTS* space-time streams correspond to columns *Mu*+1, ...,*Mu*+*NSTS~~,u~~* of the spatial mapping matrix *Q* (*Mu* ~~and~~ *~~N~~~~STS,u~~* ~~are~~ is defined in 22.3.10.11.1 (Transmission in VHT format)).