IEEE P802.11  
Wireless LANs

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Abstract

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| 6273 | Brian Hart | 188 | 3 | 9.3.2.6 | In the case of a VHT STA addressed by a RTS in a VHT PPDU, this is not a very healthy design - it could lead to excess collisions. Better is to conservatively assume that the TX is only static capable and not respond if any subchannel is busy | As in comment | Reject.  The benefit of extending the static/dynamic behaviour to VHT RTS/CTS is not clear, because this behavior is available on non-HT RTS/CTS. Moreover, it is useful to preserve a VHT operation mode where the response to RTS is not conditioned by CCA. | COEX |

Discussion

Static and dynamic behaviour is currently defined for non-HT RTS/CTS. When there is concern regarding collisions on secondary channel, non-HT RTS/CTS can be used, possibly followed by a VHT RTS/CTS exchange (in a similar manner as it would precede a Data/ACK exchange). The use of non-HT RTS/CTS is suggested as it results in backward compatibility and lower overhead.

The benefit of extending the static/dynamic behaviour to VHT RTS/CTS is not clear. Moreover, it is useful to preserve one operation mode where the response to RTS is not conditioned by CCA.

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| 6852 | Ahmadreza Hedayat | 188 | 3 | 9.7.6.1 | The static/dynamic-BW capability that is available with non-HT RTS/CTS is not availabe for VHT RTS/CTS. | Specify what VHT-RTS/CTS-senders should expect rearding the static/dynamic-BW capability of the other STA. | Reject.  The behaviour is already clearly described in D3.0 in 9.3.2.6 | MAC |

The commenter is correct in pointing out that the static/dynamic BW capability is not available to VHT RTS/CTS. The proposed resolution is to specify the behaviour of the responder upon reception of a VHT RTS; The behaviour is actually already described in D3.0 in 9.3.2.6

A non-VHT STA that is addressed by an RTS frame or a VHT STA that is addressed by an RTS frame carried

in a non-HT or non-HT duplicate PPDU that has a non-bandwidth signaling TA or a VHT STA that is addressed

by an RTS frame in a format other than non-HT or non-HT duplicate behaves as follows:

— If the NAV indicates idle, the STA shall respond with a CTS frame after a SIFS period.

— Otherwise, the STA shall not respond with a CTS frame.