IEEE P802.11  
Wireless LANs

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| D0.1 Comment Resolution, | | | | |
| Date: 2011-04-28 | | | | |
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| --- | --- | --- | --- | --- | --- | --- | --- |
| 887 | Porat, Ron | 7.3.2.61.2 | 30 | 42 | TR | “Grouping Set” – Specifies supported Ng values, but is this as beamformee or beamformer, or for both? |  |

**Discussion:**

Selecting the Grouping Set is a BFMee decision because:

1. Beamformee knows the channel and can make a better decision on the Grouping set to be used for the feedback.

2. The Beamformee has to send the feedback within SIFS

3. Interpolation is relatively simple at the Beamformer.

4. The BFMee already indicates the Grouping set used in the VHT MIMO Control field of the Feedback frame.

**Proposed resolution:**

**Remove Grouping Set from VHT Capability Info field.**

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| --- | --- | --- | --- | --- | --- | --- |
| ~~B11-B12~~ | B11-B13 | B14-B16 | B17 | B18 | B19 | B20-B31 |
| ~~Grouping Set~~ | Compressed Steering Number of Beamformer Antennas Supported | Number Of Sounding Dimensions | MU Tx Capable | MU Rx Capable | VHT TXOP PS | Reserved |
| ~~2~~ | 3 | 3 | 1 | 1 | 1 | 12 |

**Remove Grouping Set** from Table “**Table 8-ac18—Subfields of the VHT Capabilities Info field”**

**Add to section 22.3.12.2 “Beamforming Feedback Matrix V”**

The beamformee decides the tone grouping value to be used in the Beamforming Feedback Matrix V. The beamformer shall support all tone grouping values and codebook information based on MU Beamformer Capablity.