IEEE P802.11
Wireless LANs

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| D1.0 Comment Resolution – MU Comments |
| Date: 2011-09-19 |
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##### Comments are based on 11ac D1.0. Proposed resolutions are based on 11ac D1.1. Changes indicated by a mixture of Word track-changes and instructions. For equation changes, Latex notation is sometimes used. E.g. a\_{xyz}^b denotes axyzb

Following CIDs are covered in this document:

2669, 2670, 2671

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2669 | 47.48 | 8.4.1.40 | The sentence 'A beamformer may ignore this threshold if SU type feedback is used to form a single user beamformmed transmisison' should only apply to 'Rx Nss' with 'Max Nss For SU Present' is set to 1. However, as currently written, it sounds like this sentence applies to all cases. For example, sounds like a beamformer may ignore 'Channel Width' and/or 'Rx Nss' w/ 'Max Nss for SU Present'=0. | Clarify that this sentence applies only to 'Rx Nss' with 'Max Nss For SU Present' is set to 1. | AGREE IN PRINCIPLE. Change implemented in D1.1 as part of comment resolution to CID 3438 already resolved this comment to satisfaction. No text change needed. |

**Context:**

Table 8-ac12—Subfield values of the VHT Operating Mode field

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| **Field** | **Description** |
| Channel Width | If Max Nss For SU Present is set to 0, indicates the supported channelwidth:Set to 0 for 20 MHzSet to 1 for 40 MHzSet to 2 for 80 MHzSet to 3 for 160 MHz or 80+80 MHzReserved if Max Nss For SU Present is set to 1. |
| Rx Nss | The maximum number of spatial streams the STA can receive interpreted according to the Max Nss For SU Present setting:Set to 0 for *NSS* = 1Set to 1 for *NSS* = 2…Set to 7 for *NSS* = 8 |
| Max Nss For SUPresent | Set to 0 if Rx Nss indicates the supported number of spatial streams.Set to 1 if Rx Nss indicates the maximum number of spatial streams the beamformee can receive in a single user beamformed transmission when feedback type = 1 (as defined in Table 8-ac4 (Subfields of the VHT MIMO Control field)) was used to calculate the Beamforming steering matrix.A beamformer may ignore this threshold if SU type feedback isused to form a single user beamformed transmission.(#3438) |

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2670 | 52.34 | 8.4.2.100.2 | Suggest to make it more explicit on whether this capability is beamformee's or beamformer's capability. Also, it is not clear what the value should be if the STA is not SU and/or MU beamformee capable. | Change the 'Definition' of 'Compressed Steering Number of Beamformer Antennas Supported' as 'Beamformee's capability indicating the maximum number of beamformer antennas the beamformmee can support when sending compressed beamforming feedback. If both SU Beamformee Capable and MU Beamformee Capable are set to 0, then set to 0.' | AGREE. See 11/1234. |
| 2671 | 52.40 | 8.4.2.100.2 | Suggest to make it more explicit on whether this capability is beamformee's or beamformer's capability. Also, it is not clear what the value should be if the STA is not SU and/or MU beamformer capable. | Change the 'Definition' of 'Number of Sounding Dimensions' as 'Beamformer's capability indicating the number of antennas used by the beamformer when sending beamformed transmissions. If both SU Beamformer Capable and MU Beamformer Capable are set to 0, then set to 0.' | AGREE. See 11/1234. |

**Proposed Text Changes:**

Change Table 8-ac13 (8.4.2.140.2, D1.1) as follows:

**Table 8-ac13—Subfields of the VHT Capabilities Info field**

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| **Subfield** | **Definition** | **Encoding** |
| Compressed Steering Number ofBeamformer Antennas Supported | Beamformee’s capability indicating(#2670) the maximum number of beamformer antennas the beamformee can support when sending compressed beamformingFeedback.Set to 0 if both SU Beamformee Capable and MU Beamformee Capable are set to 0(#2670). | Set to maximum value minus 1 |
| Number of Sounding Dimensions | Beamformer’s capability indicating(#2671) the number of antennas used for(#3741) beamformed transmissions.Set to 0 if both SU Beamformer Capable and MU Beamformer Capable are set to 0(#2671). | Set to value minus 1 |