IEEE P802.11
Wireless LANs

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|  D1.0 Comment Resolutions to CID 2026, 2159 |
| Date: 2011-11-02 |
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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolutions** |
| 2026 | 8.3.1.11 | 26 | 10 | The maximum number of "n" in STA info field is not defined. Consider the case when AP has eight antenna and eight STAs with single antenna, n is set to maximum value of eight. Although the maximum number of beamformees in DL MU-MIMO transmission is defined as four, in current draft specification, it is not relevant to the maximum number of "n".  | Define the maximum number of "n" explicitly.  | DISAGREE. The value of “n” is determined by BFer, who is responsible for the TXOP duration. So it is not necessary to add a constraint for the maximum number of “n”, BFer can handle this. |
| 2159 | 8.3.1.11 | 26 | 21 | When one STA field is in NDPA for AP as beamformee, for IBSS and mesh BSS, AID in the STA field is already defined to 0. It is good to define AID in the STA field to 0 if only one STA is the destination of NDPA. This can harmonize single destination NDPA. | As proposed. | DISAGREE. Since there the RA subfield can indicate SU/Broadcast, we don’t see the benefits to add this definition. BTW, the AID in the field may be used for further error check. |

**Discussion:**

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*For CID 2026, the number of STAs in NDPA is not related to the MU-MIMO transmission. The beamformer can poll the beamforming reports that it needs, due to outdated channel information, absence of channel information, etc. Beamformer can poll the beamforming report from a beamformee but does not transmit frames to the beamformee immediately. So we cannot simply define that the maximum number of STAs in NDPA is restricted by MU-MIMO transmission. Since beamformee knows how long the frame of NDPA is, it also knows how many STA info’s the NDPA contains, i.e, it is not necessary to define the maximum value of ‘n’. The number of needed beamforming reports should be determined by beamformer itself.*

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*For CID 2159, single destination NDPA is already supported by the RA in NDPA: “*If the NDPA frame contains only one STA Info field, then the RA field is set to the address of the STA identified by the AID in the STA Info field.*”* *In unicast NDPA, the use of the receiver STA AID in the STA info field is consistent with the multicast NDPA case, allowing for unified frame parsing. Moreover, the AID can be used as a check for the receiver address; we see no benefit in setting the STA ID to 0 in unicast NDPA.*

**Proposed resolution: Disagree**