IEEE P802.11
Wireless LANs

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| Comment resolution on CID 11896 |
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Abstract:

This document contains comment resolution on CID 11896 in 28.3 and the proposed specification changes are in draft 2.2:

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 11896 | 28.3.18.4.3 | 491 | 45 | "... In the test, NSS=NSTS (no STBC) shall be used". How about beamforming? Nowadays all the actual EVM measurements shall disable beamforming, due to test equipments' limitations. | Add "and no beamforming shall be used" after the quoted sentence | Revised. 11ax editor, please see the discussion for instructions for CID 11896 in doc IEEE 802.11-18/0478r1. |

**Discussions for CID 11896:**

To prevent EVM results from different test equipments with beamformed PPDU, the clarification on EVM tests for beamfored PPDU is added. The basic principle in the EVM tests is to make the tests simple. Optional features that introduces extra complexity or not absolutely necessary should not be included in the EVM tests.

***TGax Editor: Please make the following text change (changed texts are in red) for the line 4-14 of page 516* *of D2.2***:

The relative constellation RMS error in the test, calculated by first averaging over subcarriers, frequency segments, HE PPDUs, and spatial streams (see Equation (28-126)) as described in 28.3.18.4.4 shall not exceed a data-rate dependent value according to Table 28-45 (Allowed relative constellation error versus constellation size and coding rate). The number of spatial streams under test shall be equal to the number of utilized transmitting STA antenna (output) ports and also equal to the number of utilized testing instrumentation input ports. In the test, *NSS* = *NSTS* (no STBC) and no beamforming steering matrix shall be used. Each output port of the transmitting STA shall be connected through a cable to one input port of the testing instrumentation. The requirements shall apply to 20 MHz, 40 MHz, 80 MHz, and 160 MHz contiguous transmissions as well as 80+80 MHz noncontiguous transmissions