IEEE P802.11
Wireless LANs

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| CR for PHY Related Topics |
| Date: 2018-11-12 |
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Abstract

This submission addresses the following CIDs from TGaz CC28 and based on TGaz draft 0.5:

CID 33, 34, 35, 97, 104, 286, 287, 288, 289, 291 and 293 (11 CIDs).

All the CRs are related to the same sub-clause: 11.22.6.1.

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| **CID** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 35 | 45 |

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| Typo on the word "beamforming" |

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| As per comment |

 | Accepted.Now on page 44, in D0.5. |
| 97 | 45 |

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| "For DMG and EDMG, an FTM session shall be preceded by a First Path Beamforming Training16 as described in 10.39.9.6 First Path Beamgorming Training" - First path beamforming is not available to DMG due to lack of relevat header fields. It should not be mandatory for EDMG either. |

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| Replace this text with " FOR EDMG, an FTM session may be preceded by a First Path Beamforming training as described in 10.39.9.6 First Path Beamforming Training. |

 | Accepted. Already addressed in D0.4. Moved to page 44 in D0.5. |
| 286 | 44 |

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| Should use lowercase after colon |

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| As it says in the comment (also on next page) |

 | Accepted. |
| 289 | 45 |

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| The z in DMGz/EDMGz/VHTz/HEz should be lowercase |

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| As it says in the comment |

 | Accepted.Already fixed in 0.5 and no longer needed for VHTz/HEz. |
| 291 | 45 |

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| "First Path Beamforming Training" -- is this a frame? If so, append "frame", else lowercase |

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| As it says in the comment |

 | Accepted.Convert to lowercase. |

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| 33 | 44 |

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| Since we have used the abbreviation NDP in text prior to this section, does it make sense to replace Null Data Packet to NDP in this paragraph? |

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| As per comment |

 | Accepted. |
| 287 | 44 |

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| "Null Data Packet" should be abbreviated to NDP, and things that are frames should have "frame" at the end (maybe special case for report, but maybe in that case it needs to be lowercase "report"). NDPA on the other hand should not be so abbreviated |

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| As it says in the comment (also on next page) |

 | Revised.NDP abbreviated. Adding frame to all would make it superfluous for NDP and make the sentences wordy without adding clarity. |

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| 34 | 45 |

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| Modify the entire paragraph (c) as such "HEz Ranging: Multiuser exchange of downlink poll, multiuser uplink poll response, downlink sounding trigger, multiuser uplink NDP, multiuser downlink NDPA, downlink NDP and downlink Location Measurement Report to multiple ISTAs" |

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| As per comment |

 | Accepted.Now on page 44, in D0.5. |
| 104 | 45 |

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| HEz ranging also consists of an optional UplinkLMR sent from ISTA to RSTA. |

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| Change the line to "Multiuser exchange of downlink poll, multiuser uplink poll response,downlink trigger, multiuser uplink NDPA, multiuser uplink NDP, downlink NDP,downlink Location Measurement Report to multiple STAs and optionally another downlink Trigger and uplink Location Measurement Report to RSTA. |

 | Accepted.Need to combine with the resolution of CIDs 35 and 489. |
| 489 | 45 |

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| Sequence is incorrect |

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| Change to downlink trigger, multiuser UL NDP, downlink NDPA, downlink NDP |

 | Accepted. Same as CID35. |

**Proposed Changes**

TGaz Editor: please modify the following sentence in section 11.22.6.1 after line 27 on page 44 in D0.5.

HEz Ranging: Multiuser exchange of downlink poll, multiuser uplink poll response, downlink sounding trigger, multiuser uplink NDP, multiuser downlink NDPA, downlink NDP and downlink Location Measurement Report to multiple ISTAs and optionally another downlink Trigger and uplink Location Measurement Report to RSTA.

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| 288 | 44 |

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| Having stated that scheduling can be RSTA- or ISTA-centric, it would be helpful to indicate which of the measurement exchange types are RSTA- or ISTA- or support both |

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| As it says in the comment |

 | Accepted. |

**Proposed Changes**

TGaz Editor: please add the following sentence to section 11.22.6.1 after line 27 on page 44 in D0.5.

RSTA centric scheduling is supported by legacy FTM, TB, DMGz and EDMGz ranging. ISTA centric scheduling is supported by non-TB ranging.

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| 293 | 44 |

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| Why is it "FTM Measurement Exchange" but "$blah Ranging" for all the others? |

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| Clarify |

 | Rejected.FTM naming is defined before 11az. The Ranging definition is mentioned at the end of the same sub-clause. |