IEEE P802.11  
Wireless LANs

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| First Path tap measurement CIDs | | | | |
| Date: 2019-11-04 | | | | |
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Abstract

This document proposes resolution to CIDs 1427, 2349

The text changes are based on D1.5

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| 1427 | 49.00 | 9.4.2.279 | The R2I and I2R ToA Types are defined either based on first arrival path or average linear phase accros subcarriers. For EDMG positioning, it is beneficial to have in addition to the first arrival path timestamp, a timestamp based on the strongest path, to provide additional information for scenarios such as obstructed LOS. | Define a ToA type based on strongest arrival path / strongest tap for SC DMG/EDMG positioning e.g., For PDMG/PEDMG the I2R ToA Type subfield is set to 1 in the initial Fine Timing Measurement Request frame to indicate that the ISTA supports ToA feedback based on strongest path in the ISTA-to-RSTA LMR. | Reject – withdrawn by the commenter |

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| --- | --- | --- | --- | --- | --- |
| 2349 | 119.18 | 11.22.6.4.7.1 | It may be beneficial to measure TOF of the strongest impulse response tap when using best path AWV. | One option would be to include trigger with value 5 indicating best path AWV and TOA feedback based on strongest tap of impulse response. | Reject – the group could agree to a solution |
| 1425 | 37.17 | 9.4.2.127.8 | For DMG positioning, it is beneficial to allow devices to measure ToF of strogest path as alternative to LOS path. It should however be present in the capabilities if a DMG STA can compute the ToF based only on First Arrival Path or also on strongest path. | Please add a capability bit, as suggested in comment. | Reject – withdrawn by the commenter |

**References:**