**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | Text for Abstract and Keywords sections |
| Date Submitted | 26 June 2019 |
| Source | Billy Verso (Decawave Ltd),  | billy.verso at decawave.com |
| Re: | LB156 comments on missing Abstract and Keywords sections. |
| Abstract | HRP UWB PHY enhancements for the TG4z amendment of IEEE Std 802.15.4-2015 |
| Purpose | This document provides text for the missing “Abstract:” and “Keywords:” sections. |
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| EXTRA NOTE:  |

***Below is the proposed text to complete the missing “Abstract:” and “Keywords:” sections (from page iii) of the P802.15.4z-D1 of letter ballot LB156.***

***This addresses the following comment IDs: i-0416, i-0417, i-0613, i-0614, i-1250, i-1251, i-1959 and i-2033.***

**Abstract:** This amendment enhances the UWB PHYs with additional coding options and improvements to increase the integrity and accuracy of ranging measurements. It also enhances the MAC to support control of time of flight ranging procedures and exchange ranging related information between the participating ranging devices.

**Keywords:**, precision ranging, Double-sided two-way ranging, DS-TWR, Enhanced ranging device, ERDEV, HRP UWB PHY, HRP-ERDEV, IEEE 802.15.4™, IEEE 802.15.4z™, low power, Low-Rate Wireless Networks, LRP UWB PHY, LRP-ERDEV, Multi-node ranging, Ranging device, RDEV, Radio Frequency, RF, Radio Frequency Identification, RFID, Real Time Locating Systems, RTLS, Single-sided two-way ranging, SS-TWR, Time of flight, TOF, TOF integrity, Two-way ranging, Ultra wide-band, UWB, Wireless Specialty Networks, WSN.

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