Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: [The Ultra-wideband Indoor Multipath Model]
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Source: [Dr. Saeed S. Ghassemzadeh] Company [AT&T Labs-Research]
Address [Rm. B237, 180 Park Ave., Florham Park, NJ 07932 US]
Voice:[973-236-6793], FAX: [973-360-5877], E-Mail:[saeedg@research.att.com]

Re: [IEEE P802.15-02/208r1-SG3a and IEEE P802.15-02/282r0-SG3a]

Abstract: [This contribution describes a simple model for simulation of the UWB indoor channel. It consists of detailed characterization of multipath parameters such as maximum excess delay, mean and RMS delay spread, average multipath intensity profile model, relative multipath powers and their amplitude and phase distribution. The work is based on over 300,000 frequency response measurements taken in 23 homes.]

Purpose: [For IEEE 802.15.SG3a to adopt the path loss model and use it in link budget calculations for validation of throughput and range requirements of UWB PHY proposals.]

The Ultra-wideband Indoor Multipath Model

Saeed S. Ghassemzadeh
AT&T Labs-Research