IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Proposed Structure of Informative Annex for the IEEE 802.11ay Channel Model Document | | | | |
| Date: 2016-04-26 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Shigenobu Sasaki | Niigata University | 8050 Ikarashi 2-no-cho, Nishi-ku, Niigata, 950-2181 Japan | +81-25-262-6737 | shinsasaki@ieee.org |
| Minseok Kim | Niigata University |  |  |  |
|  |  |  |  |  |

Abstract

This contribution contains the proposed structure of Informative Annex for the IEEE 802.11ay channel model document. Experimental setups and results under various environments will be accommodated based on the future contributions submitted by different parties or contributors.

## Annex (informative)

### Experimental results on millimetre-wave channel measurements

In the IEEE 802.11ay amendment, various new usage scenarios are considered in addition to indoor communications that is a main usage scenario in the IEEE Std. 802.11ad-2012 [1]. Millimetre-wave channel measurements are necessary to develop the channel models under different usage scenario.

According to the usage models listed in Table 2.1 in [2], millimetre-wave channel environment is classified to the indoor, outdoor, and ultra short range scenarios. The following text contains the experimental setup and results of millimetre-wave channel measurements conducted by different parties, based on the contributions in TGay.

*[Editor’s Note: The following section structure and title may be changed according to the contributions from individuals.]*

### Indoor Scenario

* 1. **Large Hotel Lobby Scenario**
     1. **Measurement Setup**
     2. **Measurement Results**

### Outdoor Scenario

* 1. **Outdoor Open Area Hot Spot Access** 
     1. **Measurement Setup**

**for-ieee-802-11ay**

* + 1. **Measurement Results**

### Ultra Short Range Communication

* 1. **Ultra Short Range Scenarios** 
     1. **Measurement Setup**
     2. **Measurement Results**

**References:**

1. IEEE Std. 802.11ad-2012, Dec. 2012.
2. A. Maltsev, et al., Channel Models for IEEE 802.11ay, doc.: IEEE 802.11-15/1150r3, Mar. 2016.