IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Proposed changes to FR document | | | | |
| Date: 2017-07-11 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Thomas Handte | Sony Europe Ltd. | Hedelfinger Strasse 61,  D-70327 Stuttgart | +49 711 5858236 | thomas.handte @ sony.com |
|  |  |  |  |  |

Abstract

This document proposes two editorial changes to the FRD document [1].

The proposed changes are in section 2.1.2 “60 GHz bands” of document [1] which is shown below.

**2.1.2 60 GHz bands**

1. Decrease units of Min Delta FTM for 60 GHz while maintaining backwards compatibility. [Ref-5]
2. Allow for smaller Burst Duration for 60 GHz while maintaining backwards compatibility. [Ref-5]
3. Add additional rotational angle (ROLL) to measurement reports. [Ref-5]
4. Define TOD for T1 & T3 and TOA for T2 & T4 to reduce effect of drift on ranging computation. [Ref-5]
5. The 802.11az amendment shall support at least one mode of operation that enables range measurement in the 60GHz band with an accuracy of 1cm, @90%.[Ref-6]
6. The 802.11az amendment shall support at least one mode of operation that enables AOA/~~DOA~~AOD measurement in the 60GHz band with an accuracy of 5deg, @90%.[Ref-6]
7. The 802.11az amendment shall support at least one mode of operation that enables range/AOA measurement in the 60GHz band with a latency of 10ms. [Ref-6]
8. The 802.11az amendment shall support at least one mode of operation that provides location using ~~a single link~~ both range and angle measurements of a single link. [Ref-6]
9. The 802.11az amendment shall support at least one mode of operation at 60GHz that enables range measurement at a minimum distance of at most 5 cm. [Ref-6]
10. The 802.11az amendment shall support at least one mode of operation at 60GHz that enables concurrent location measurement of 12 users and 7APs over the same 60GHz channel. [Ref-6]

**References:**

[1] [11-16-0424r6 Proposed 802.11az functional requirements](https://mentor.ieee.org/802.11/dcn/16/11-16-0424-06-00az-proposed-802-11az-functional-requirements.docx)