**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Resolution to CID r2-0337** |
| Date Submitted | [17 October, 2019] |
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| Abstract | [Resolution to 802.15.4z comment CID r2-0337] |
| Purpose | [Resolve 802.15.4z comment CID r2-0337] |
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**This document provides a resolution to comment r2-0337.**

***In 7.4.4.43, replace Figure 65 as follows:***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bits: 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Octets: 1 | Variable |
| Address Present | Reply Time Present | Round-trip Time Present | TOF Present | AOA Azimuth Present | AOA Elevation Present | AOA FOM Present | Deferred Mode | RMI List Length | RMI List |

**Figure 65 - RMI IE Content field format**

***In 7.4.4.43, on Page 95, add the following after Line 22:***

The AOA FOM Present field when one indicates that the AOA Azimuth FOM field is present in each RMI List element if the AOA Azimuth field is present and that the AOA Elevation FOM field is present in each RMI List element if the AOA Elevation field is present, or when zero that neither the AOA Azimuth FOM field nor the AOA Elevation FOM field are present.

***In 7.4.4.43, replace Figure 66 as follows:***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Octets: 0/4 | 0/4 | 0/4 | 0/2 | 0/1 | 0/2 | 0/1 | 0/2/8 |
| RX-to-TX Reply Time | TX-to-RX Round-trip Time | TOF | AOA Azimuth | AOA Azimuth FOM | AOA Elevation | AOA Elevation FOM | Address |

**Figure 66 - RMI List element format**

***In 7.4.4.43, on Page 96, add the following after Line 13:***

The AOA Azimuth FOM field is an unsigned integer that conveys the reliability of the estimated AOA in the azimuth. Higher AOA Azimuth FOM value is better, and AOA Azimuth FOM value zero means invalid AOA Azimuth estimate.

***In 7.4.4.43, on Page 96, add the following after Line 16:***

The AOA Elevation FOM field is an unsigned integer that conveys the reliability of the estimated AOA in the elevation. Higher AOA Elevation FOM value is better, and AOA Elevation FOM value zero means invalid AOA Elevation estimate.

In order for the AOA Azimuth FOM value and AOA Elevation FOM value to be meaningful, the AOA capabilities of the measuring device including details of its antenna array setup need to be known. Agreeing and communicating these system parameters is beyond the scope of this standard. Out-of-band mechanisms as well as custom messages can be used for this purpose.