IEEE P802.11  
Wireless LANs

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| Proposed text change on Example of spoofing algorithm | | | | |
| Date: 2018-1-15 | | | | |
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Abstract

This submission proposes text changes on 30.3.3.2.4.2 Example of spoofing algorithm for Length field of Draft P802.11ay D1.0, which address the editor note remains in the subclause.

We propose the text changes as the comment resolution for the following comments received from LB# 231 (TGay Draft 1.0). :

9 CIDs: 1504, 1684, 1720, 1910, 2080, 2341, 2342, 1605 and 1174

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| **CID** | **Page** | **Comment** | **Proposed Change** | **Proposed Resolution** |
| 1504 | 245.07 | Editor Note remains in subsection 30.3.3.2.4.2 (Example of spoofing algorithm for Length field.) | A separete submission has been provided: 11-17/1834 | **Revised**  TGay editor to make the changes shown in 11-17/1834r3 under all headings that include CID 1504. |
| 1684 | 245.01 | There are many parameters in the above algorithm that are undefined. | Define algorithm paramenters and variables | **Revised**  TGay editor to make the changes shown in 11-17/1834r3 under all headings that include CID 1504. |
| 1720 | 245.07 | Editor note indicates that the draft is incomplete | Complete draft | **Revised**  TGay editor to make the changes shown in 11-17/1834r3 under all headings that include CID 1504. |
| 1910 | 245.07 | Fix editors note "  7 Editor Note: there are many parameters in the above algorithm that are undefined. Examples include  8 compressed\_bw, R, ¤ü, etc. All these need to be defined. Also, the mod function does not comply with how  9 it is defined in the 802.11 std." | As described | **Revised**  TGay editor to make the changes shown in 11-17/1834r3 under all headings that include CID 1504. |
| 2080 | 245.07 | Missing values regarding Editor's note | Fill in information that is specified by editor's note | **Revised**  TGay editor to make the changes shown in 11-17/1834r3 under all headings that include CID 1504. |
| 2341 | 245.07 | Please provide definitions for the parameters listed in the algorithm referenced by the Editor's Note | Please provide definitions for the parameters listed in the algorithm referenced by the Editor's Note | **Revised**  TGay editor to make the changes shown in 11-17/1834r3 under all headings that include CID 1504. |
| 2342 | 245.08 | Please make the "mod" function comply with the way it is defined in the 802.11ad std. | Please make the "mod" function comply with the way it is defined in the 802.11ad std. | **Revised**  TGay editor to make the changes shown in 11-17/1834r3 under all headings that include CID 1504. |
| 1605 | 243.13 | Formulas in this subclause are tough to read | Revise | **Revised**  The formulas are embedded in D1.0 as pixelated images instead of the formula objects.  *TG ay Editor: Replace the formula”images” in 30.3.3.2.4.2 with the formula “objects”* |
| 1174 | 245.07 | "there are many parameters in the above algorithm that are undefined" | Define them.  Also the if/else "pseudocode" at the top of this page would be better represented using a single question with a vertical brace, two terms vertically on top of each other, and a comma introducing the condition under which it applies. | **Revised**  The comment is addressed with the resolution for CID 1504.  Regarding the second paragraph in the proposed change, we propose to accept the proposed change. See the formula in step e) in the following proposed text change.  TGay editor to make the changes shown in 11-17/1834r3 under all headings that include CID 1174. |

***Editor: modify the text in subclause 30.3.3.2.4.2 of D1.0 as follows: (CID #1504, #1174)***

Example of spoofing algorithm for Length field

The following is an informative algorithm for calculating the value of the Length field, , and the Training Length field, , in the L-Header of an EDMG SC mode PPDU or an EDMG OFDM mode PPDU.

1. The tentative number of SC symbol blocks, , is calculated as ,  
   where is defined in 30.12.3, and , and are defined in 30.5.10.4.2.2.
2. The Base MCS field in the L-Header is set to the value such that the following conditions are met:

* ,  
  where , and are the parameters defined in section 20.6.3.2.5, 20.6.3.2.3 and 20.6.3.2.3 respectively, and the values are chosen based on the value of the Base MCS field as described in section 20.6.3.
* If and , the Base MCS field shall be set to the value that is greater than 5.

1. The parameters and which denote the number of SC symbol blocks and the Training Length respectively in a DMG SC mode PPDU with the spoofed of the EDMG PPDU are calculated as follows:

**if** the Base MCS > 5 (π/2-QPSK, π/2-16-QAM and π/2-64-QAM) **then**

**endif**

**if** the Base MCS ≤ 5 (π/2-BPSK) and **then**

**if** **then**

**else**

**if** **then**

**else**

**endif**

**endif**

**endif**

1. The maximum value that fulfills the requirement for the spoofing error specified in 30.3.3.2.4.1, , is calculated as  
    ,  
   where is the parameter defined in section 20.6.3.2.3, and the value is chosen based on the value of the Base MCS field as described in section 20.6.3.
2. The spoofed values of the Length and Training Length fields of the EDMG PPDU are calculated as follows:

=

where the parameter is the value of the Compressed BW field in the L-Header as described in 30.3.3.2.4.1.

When the Base MCS field is set to 1, the calculated length may not satisfy the requirement for the spoofing error defined in 30.3.3.2.4.1. In that case, the Base MCS field shall be set to a value different from 1, and the Length and the Training Length fields shall be calculated by repeating c) to e).

**Straw Poll:**

* **Do you agree to accept the comment resolution for CIDs 1504, 1684, 1720, 1910, 2080, 2341, 2342, 1605 and 1174 as proposed in 17/1834r3?**

**References**

[1] Draft P802.11ay D1.0