### IEEE P802.11Wireless LANs

|  |
| --- |
| 11ax D4.2 Padding for Random Access |
| Date: 2019-07-03 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Po-Kai Huang | Intel Corporation | 2200 Mission College Blvd, Santa Clara, CA 950542200  |  | po-kai.huang@intel.com |
| Daniel Bravo |  |  |  |
| Robert Stacey |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes resolutions for issues related to padding of random access

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revision based on the feedback received offline

Rev 2: Revision based on the feedback received offline

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax D4.2 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax D4.2 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Discussion:**

For UORA, a non-AP STA may not stop processing User Info field until the non-AP STA reaches a User Info field with AID equal to 4095 due to the reason that User info fields with AID 2046 are not proposed originally as a padding option.

We propose to redefine the definition of SCH for random access to make sure that padding can be counted after 2046.

**Propose:**

***TGax editor: Change 26.5.2.2.3 Padding for Trigger frame or frame containing TRS Control subfield as follows: (Track change on)***

(…existing texts…)

An AP transmitting a Trigger frame that contains at least one User Info field with AID12 subfield set to 0 (i.e., an RA-RU for associated STAs) shall ensure that the number of bits following the last bit of SCH is at least *LPAD,MAC* as defined in Equation (26-1), which is based on the largest *MinTrigProcTime* of all associ-ated non-AP STAs, where *SCH* is the last User Info field with AID12 subfield equal to either 0 or 2046.

An AP transmitting a Trigger frame that contains at least one User Info field with AID12 subfield set to 2045 (i.e., an RA-RU for unassociated non-AP STAs) should ensure that the number of bits following the last bit of SCH is at least 4 × *NDBPS* for a non-HT PPDU, HT PPDU or VHT PPDU, or *NDBPS* for an HE PPDU, where S*CH* is the last User Info field with AID12 subfield equal to either 2045 or 2046.

(…existing texts…)