### IEEE P802.11 Wireless LANs

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| 11ax D4.2 Padding for Random Access | | | | |
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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

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.***

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**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 clarify that AID 2046 are not counted as padding. There should be no implementation issues due to the following reasons. User info field with AID 2046 is introduced as an option to drop scheduled UL scheduled users after a Trigger frame is prepared. Hence, when the Trigger frame is prepared originally, the padding after User info fields indicating RA-RU shall already meet the padding requirement. Similarly, the padding after User info fields soliciting reponse from associated STA shall already meet the padding requirement

**Propose:**

**26.5.2.2.3 Padding for Trigger frame or frame containing TRS Control subfield**

An AP transmitting a PPDU that contains a Trigger frame or frame containing a TRS Control subfield solic-iting a response from a non-AP STA shall ensure that the number of bits, which do not include bits contained within User Info fields with AID12 subfield set to 2046 (if any), in the PSDU following the last bit of SCH is at least *LPAD,MAC* as defined in Equation (26-1), which is based on the *MinTrigProcTime* indi-cated by the non-AP STA (see Table 9-321a (Subfields of the HE MAC Capabilities Information field)), where

*SCH* is either:

• the User Info field addressed to the STA of the last or only Trigger frame, or

• the TRS Control subfield of the last or only frame.

(..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, which do not include bits contained within User Info fields with AID12 subfield set to 2046 (if any), 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 0.

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, which do not include bits contained within User Info fields with AID12 subfield set to 2046 (if any), 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 2045.

(..existing texts…)