IEEE P802.11
Wireless LANs

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|  Spec Text for TWT Protectioin field |
| Date: 2016-09-12 |
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Abstract

This submission proposes spec texts TWT protection field based on motion passed in 16/353r2, which addresses the comment CID 2391.

Revisions:

* Rev 0: Initial version of the document.

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 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax 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:**

The following motion about TWT protection field has been passed in 16/353

*A TWT requesting STA sets the TWT Protection subfield to 1 in TWT Request frame to request the AP to provide protection of the set of TWT SPs using a NAV protection mechanism defined in 802.11ax (e.g., (MU-)RTS/CTS or CTS-to-self, etc.).*

The spec text for this motion is proposed.

**Propose:**

**TGax Editor: *add the followings in clause******9.4.2.196 (TWT element)*** *in page 52 of D0.4*

**9.4.2.196 TWT element**

***Change the parageaph as follows:***

An S1G TWT requesting STA sets the TWT Protection subfield to 1 to request the S1G TWT responding STA to provide protection of the set of TWT SPs corresponding to the requested TWT flow identifier by allocating RAW(s) that restrict access to the medium during the TWT SP(s) for that(those) TWTs. An S1G TWT requesting STA sets the TWT Protection subfield to 0 if TWT protection by RAW allocation is not requested for the corresponding TWT(s). An HE TWT Requesting STA sets the TWT Protection subfield to 1 to request the HE TWT responding STA to provide protection of the set of TWT SPs corresponding to the requested TWT flow identifier by NAV protection defined in 10.3.2.4 (Setting and resetting the NAV), 10.3.2.8a (MU RTS/CTS procedure), or CTS-to-self as described in 10.3.2.13(NAV distribution).

When transmitted by a TWT responding STA that is an AP, the TWT Protection subfield indicates whether the TWT SP(s) identified in the TWT element will be protected. An S1G TWT responding STA sets the TWT Protection subfield to 1 to indicate that the TWT SP(s) corresponding to the TWT flow identifier(s) of the TWT element will be protected by allocating RAW(s) that restrict access to the medium during the TWT SP(s) for that(those) TWT(s). An S1G TWT responding STA sets the TWT Protection subfield to 0 to indicate that the TWT SP(s) identified in the TWT element might not be protected from TIM STAs by allocating RAW(s).