IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment resolution on CID 783 (TXOP Duration field) | | | | |
| Date: 2016-07-24 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Jeongki Kim | LG Electronics |  |  | [jeongki.kim@lge.com](mailto:jeongki.kim@lge.com) |
| Po-Kai Huang | Intel Corporation |  |  |  |
| Alfred Asterjadhi | Qualcomm Inc. |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes resolution for a comment related to TGax D0.1 with the following CID:

* 783

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.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 783 | 105.30 | The size and detail of TXOP Duration field is still TBD. Clarify the size and details of TXOP Duration field | Change the Number of bits of TXOP field from TBD to 7 bits.  Delete the "Details TBD" and add the following text in Description.  The TXOP field shall cover up to 8ms. | **REVISED.**  **Agree in principle with the comment. We need to decide the details of TXOP Duration field (e.g., size, number and value of granularity, maximum value, range of TXOP values, etc.)**  **The size of the field was decided as 7 bits at the last May f2f meeting.**  **Based on the 7 bits size, it can be designed as follows.**   * **Two granularities can be used** * **B0 indicates whether the unit is 8us or 128us** * **One (B0=0) is 8us, 0~504us range, value= 8 us \* (the value of B1~B6 )** * **The other (B0=1) is 128 us, 512~8448us range, value =512us + (128 \* the value of B1~b6) except for the following case.** * **B0~B6= all 1s indicates no TXOP Duration information** |

### Discussion: None

**TGax Editor: Insert the TXOP\_DURATION parameter and the related texts into the Table 26-1**

**Table 26-1—TXVECTOR and RXVECTOR parameters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Condition | Value | TXVECTOR | RXVECTOR |
| … | … | … | … | … |
| TXOP\_DURATION | |  | | --- | | FORMAT is HE\_SU or HE\_MU or HE\_EXT\_SU or HE\_TRIG | | Indicates a duration of time that is used to update the NAV for this TXOP (see 25.2.1 (Updating two NAVs)), except for a value of 127 (i.e., all 1s) which indicates an invalid value of TXOP duration in SIG-A (see 25.11a (TXVECTOR parameters TXOP\_DURATION for an HE PPDU)).  B0 indicates whether the granularity is 8 us or 128us.  If B0 is set to 0, the duration information indicated by TXOP\_DURATION is equal to 8 times the value of TXOP\_DURATION from B1 to B6 in units of microseconds. In this caes, the range of the TXOP duration information is [0~504] us.  If B0 is set to 1, the duration information indicated by TXOP\_DURATION except for a value of all 1s is equal to 128 times the value of TXOP\_DURATION from B1 to B6 plus 512 in units of mircoseconds. In this case, the range of the TXOP duration information is [512~8448] us.  See 25.11a (TXVECTOR parameters TXOP\_DURATION for an HE PPDU) for more details. | Y | Y |
| Otherwise | Not present | N | N |
| … | … | … | … | … |

**TGax Editor: Modify texts related to the TXOP Duration field in Table 26-15, Table 26-16 and Table 26-17 as follows:**

Table 26-15—Fields in the HE-SIG-A for an HE SU PPDU and HE extended range SU PPDU

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Two Parts of HE-SIG-A** | | |  | | --- | | **Bit** | | |  | | --- | | **Field** | | |  | | --- | | **Number of bits** | | **Description** |
| … | … | … | … | … |
|  | TBD | TXOP Duration | ~~TBD~~ 7 | ~~Indicates remaining time in the current TXOP. Details TBD~~  Set to all 1s to indicate no duration information. Set to value other than all 1s to indicate duration information for NAV setting and protection of TXOP.  NOTE – The encoding of TXOP Duration field for indicating duration information is defined in Table 26-1 (TXVECTOR and RXVECTOR parameters). |
| … | … | … | … | … |

Table 26-16—Fields in the HE-SIG-A for an HE MU PPDU

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Two Parts of HE-SIG-A** | | |  | | --- | | **Bit** | | |  | | --- | | **Field** | | |  | | --- | | **Number of bits** | | **Description** |
| … | … | … | … | … |
|  | TBD | TXOP Duration | ~~TBD~~ 7 | ~~Indicates remaining time in the current TXOP. Details TBD~~  Set to all 1s to indicate no duration information. Set to value other than all 1s to indicate duration information for NAV setting and protection of TXOP.  NOTE – The encoding of TXOP Duration field for indicating duration information is defined in Table 26-1 (TXVECTOR and RXVECTOR parameters). |
| … | … | … | … | … |

Table 26-17—Fields in the HE-SIG-A for an HE trigger-based PPDU

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Two Parts of HE-SIG-A** | | |  | | --- | | **Bit** | | |  | | --- | | **Field** | | |  | | --- | | **Number of bits** | | **Description** |
| … | … | … | … | … |
|  | TBD | TXOP Duration | ~~TBD~~ 7 | ~~Indicates remaining time in the current TXOP. Details TBD~~  Set to all 1s to indicate no duration information. Set to value other than all 1s to indicate duration information for NAV setting and protection of TXOP.  NOTE – The encoding of TXOP Duration field for indicating duration information is defined in Table 26-1 (TXVECTOR and RXVECTOR parameters). |
| … | … | … | … | … |