IEEE P802.11
Wireless LANs

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| LB 200 Comment Resolution for Clause 24.4 |
| Date: 2014-03-07 |
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Abstract

This submission proposes resolutions for comments in clause 24.4 of TGah Draft 1.0 with the following CIDs: 1763, 1772, 1797, 2016, 2076, 2284, 2873.

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

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

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

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| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1763 | 357.24 | 24.4.4 | Table 24-37 contains several entries that are defined as "TBD". While I appreciate that some of these are dependent on simulations and empirical tests using specific semiconductor geometries, etc, interoperability requires that these values are defined prior to passing this amendment. | Determine the appropriate values for these parameters. | Revised.Please TGah editor to modify 11ah D1.2 as proposed in 11/14-xxxxr0 |
| 1772 | 357.13 | 24.4.4 | In table 24-37 there are many TBDs which need to be fixed. Also there is inconsistency between the unit of aPPDUMaxTime and the note which describes it. | Please fix the TBDs, change the second column of row aPPDUMaxTime from "27.840 ms (see NOTE1)" to 27840 us (see NOTE1) to be consistent with the NOTE1 and also because it should be used for RID deferral mechanism as a value in microseconds, and fix the typo in NOTE1 in Page 358 LN10 "byes" to "bytes". | Revised.Please TGah editor to modify 11ah D1.2 as proposed in 11/14-xxxxr0 |
| 1797 | 357.00 | 24.4.4 | There are a few "TBD" values in Table 24-37 | TBD values to be replaced by actual required values | RevisedPlease TGah editor to modify 11ah D1.2 as proposed in 11/14-xxxxr0 |
| 2016 | 357.23 | 24.4.4 | TBDs in Table 24-37 need to be filled up | as comment | Revised.Please TGah editor to modify 11ah D1.2 as proposed in 11/14-xxxxr0 |
| 2076 | 358.10 | 24.4.4 | "bytes" not "byes" Either way, would "octets" be better?? | Change to "octets" | AcceptedPlease TGah Editor to apply the changes as the commenter proposed. |
| 2284 | 355.43 | 24.4.3 | Typo on line "For an S1G SU PPDU using BBC encoding..." | Change to "For an S1G SU PPDU using ~~BBC~~ BCC encoding..." | AcceptedPlease TGah Editor to apply the changes as the commenter proposed |
| 2873 | 357.27 | 24.4.4 | aPHY-RX-START-Delay is a wrong name.Replace aPHY-RX-START-Delay with aRxPHYStartDelay through TGah Draft 1.0. | Replace aPHY-RX-START-Delay with aRxPHYStartDelay through TGah Draft 1.0. | Accepted.Please TGah Editor to apply the changes as the commenter proposed. |

**Discussion:** Most of the TBD value of parameters in Table 24-37 depends very much on the design and implementation. The similar comments have been made to Revmc and in Revmc draft D2.5, the values of some parameters have been defined as implemented dependent, e.g. aRxTxTurnaroundTime, aRxTxSwitchTime and aMACProcessingDelay. Simarly, aPHY-RX-START-Delay has been updated to aPHYRxStartDelay as well. Since aSignalExtention is only used before 11ac and the PHY of 11ah spec generally derives from 11ac, the parameter aSignalExtention should be removed from 11ah spec.

**24.4.4 PHY characteristics**

**Instruction to TGah Editor: *Modify Table 24-37 S1G PHY characteristic at ln15/pg404 as below:***

**Table 24-37-- S1G PHY characteristics**

|  |  |
| --- | --- |
| **characteristics** | **value** |
| …… | …… |
| ~~aSignalExtention~~ | ~~TBD µs~~ |
|  |  |
| ~~aPHY-RX-START-Delay~~ aPHYRxStartDelay | 600 µs for S1G\_1M preamble;280 µs for S1G\_SHORT preamble and S1G\_LONG preamble. |
| aRxTxTurnaroundTime | ~~TBD (2) µs~~Implementation dependent, see 9.3.7 (DCF timing relations). |
| aRxTxSwitchTime | ~~<< TBD (1) µs~~ Implementation dependent, see 9.3.7 (DCF timing relations). |
| …… | …… |
| aMACProcessingDelay | ~~< TBD (2) µs~~ Implementation dependent, see 9.3.7 (DCF timing relations). |
| …… | …… |
| aCCAMidTime | 212~~250~~ µs |
| aPPDUMaxTime | 27,920~~27.840~~ ~~m~~µs (see NOTE1) |
| aPSDUMaxLength | 797159~~797160~~ octets (see NOTE2) |
| NOTE1 – this is the maximum PPDU duration in µs for an S1G\_1M PPDU with a bandwidth of 1MHz, S1G-MCS10 and 1 spatial stream, limited by PSDU length of 511 ~~byes~~octets.NOTE2 – this is the maximum length in octets for an S1G SU PPDU with a bandwidth of 16 MHz, S1G-MCS9 and 4 spatial streams, limited by 511 data symbols supported by Length field in S1G SIG field~~in aPPDUMaxTime~~, excluding service field and tail bits. |