IEEE P802.11
Wireless LANs

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| LB 200 cluase 3 comment resolution part 1 |
| Date: 2013-12-18 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yongho Seok  | LG Electronics |  |  | yongho.seok@lge.com  |

Abstract

This submission proposes some comment resolutions of the clause 3 from TGah Draft 1.0.

* CIDs: 2069, 2406

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** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2069 | 1.00 | 3.2 | Need definitions of "S1G PPDU of 1 MHz bandwidth" and similar to look like entries for "20 MHz mask physical layer convergence procedure (PLCP) protocol data unit (PPDU)" and friends in 802.11-2012 . Since this in turn defines which spectral mask applies to the transmission it is important to work through the technical details | Add definitions | Revised- TGah editor to make changes shown in 11-13-1523r0 under the heading for CID 2069. |
| 2406 | 1.37 | 3.3 | "S1G" should be qualified further as TVHT STAs are sub-1G but should not use the mechanisms described here | Add suitable qualification | Rejected- A S1G STA is independent of a TVHT STA. |

**Discussion for CID 2069:**

Agree with the comment. In the sub-clause 9.20.2.9 (EDCA channel access in an S1G BSS), 1 MHz mask PPDU, 2 MHz mask PPDU, 4 MHz mask PPDU, 8 MHz mask PPDU, 16 MHz PPDU are used but the definition are missing.

**Propose:**

Revised for CID 2069 per discussion and editing instructions in 11-13/1523r0.

***TGah editor: Insert the following definitions in clause 3 (maintaining alphabetical order)***

**1 MHz physical layer protocol data unit (PPDU)**: A Clause 24 1 MHz sub 1 GHz (S1G) PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW1).

**1 MHz mask physical layer protocol data unit (PPDU)**: A PPDU that is transmitted using the 1 MHz transmit spectral mask defined in Clause 24 and that is a 1 MHz S1G PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW1).

**2 MHz physical layer protocol data unit (PPDU)**: A Clause 24 2 MHz sub 1 GHz (S1G) PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW2) or a Clause 24 2 MHz sub 1 GHz (S1G) 1MHz duplicated PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW2).

**2 MHz mask physical layer protocol data unit (PPDU)**: A PPDU that is transmitted using the 2 MHz transmit spectral mask defined in Clause 24 and that is one of the following:

1) A 1 MHz S1G non-duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW1)

2) A 2 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW2)

**4 MHz physical layer protocol data unit (PPDU)**: A Clause 24 4 MHz sub 1 GHz (S1G) PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW4), a Clause 24 4 MHz sub 1 GHz (S1G) 1MHz duplicated PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW4) or a Clause 24 4 MHz sub 1 GHz (S1G) 2MHz duplicated PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW4).

**4 MHz mask physical layer protocol data unit (PPDU)**: A PPDU that is transmitted using the 4 MHz transmit spectral mask defined in Clause 24 and that is one of the following:

1) A 1 MHz S1G non-duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW1)

2) A 2 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW2)

3) A 4 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU, S1G 2MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW4)

**8 MHz physical layer protocol data unit (PPDU)**: A Clause 24 8 MHz sub 1 GHz (S1G) PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW8), a Clause 24 8 MHz sub 1 GHz (S1G) 1MHz duplicated PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW8) or a Clause 24 8 MHz sub 1 GHz (S1G) 2MHz duplicated PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW8).

**8 MHz mask physical layer protocol data unit (PPDU)**: A PPDU that is transmitted using the 8 MHz transmit spectral mask defined in Clause 24 and that is one of the following:

1) A 1 MHz S1G non-duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW1)

2) A 2 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW2)

3) A 4 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU, S1G 2MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW4)

4) An 8 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU, S1G 2MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW8)

**16 MHz physical layer protocol data unit (PPDU)**: A Clause 24 16 MHz sub 1 GHz (S1G) PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW16), a Clause 24 8 MHz sub 1 GHz (S1G) 1MHz duplicated PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW16) or a Clause 24 8 MHz sub 1 GHz (S1G) 2MHz duplicated PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW16).

**16 MHz mask physical layer protocol data unit (PPDU)**: A PPDU that is transmitted using the 16 MHz transmit spectral mask defined in Clause 24 and that is one of the following:

1) A 1 MHz S1G non-duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW1)

2) A 2 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW2)

3) A 4 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU, S1G 2MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW4)

4) An 8 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU, S1G 2MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW8)

5) An 16 MHz S1G non-duplicate PPDU, S1G 1MHz duplicate PPDU, S1G 2MHz duplicate PPDU (TXVECTOR parameter CH\_BANDWIDTH equal to CBW16)

**primary 2 MHz channel**: In a 4 MHz, 8 MHz, 16 MHz sub 1 GHz basic service set (BSS), the 2 MHz channel that is used to transmit 2 MHz PPDUs.

**primary 4 MHz channel:** In an 8 MHz, 16 MHz sub 1 GHz (S1G) basic service set (BSS), the 4 MHz channel that is used to transmit 4 MHz PPDUs.

**primary 8 MHz channel:** In a 16 MHz sub 1 GHz (S1G) basic service set (BSS), the 8 MHz channel that is used to transmit 8 MHz PPDUs.

**secondary 1 MHz channel**: In a 2 MHz sub 1 GHz (S1G) basic service set (BSS), the 1 MHz channel adjacent to the primary 1 MHz channel that together form the 2 MHz channel of the 2 MHz S1G BSS. In a 4 MHz S1G BSS, the 1 MHz channel adjacent to the primary 1 MHz channel that together form the primary 2 MHz channel of the 4 MHz S1G BSS. In an 8 MHz S1G BSS, the 1 MHz channel adjacent to the primary 1 MHz channel that together form the primary 2 MHz channel of the 8 MHz S1G BSS. In a 16 MHz S1G BSS, the 1 MHz channel adjacent to the primary 1 MHz channel that together form the primary 2 MHz channel of the 16 MHz S1G BSS.

**secondary 2 MHz channel**: In a 4 MHz sub 1 GHz (S1G) basic service set (BSS), the 2 MHz channel adjacent to the primary 2 MHz channel that together form the 4 MHz channel of the 4 MHz S1G BSS. In an 8 MHz S1G BSS, the 2 MHz channel adjacent to the primary 2 MHz channel that together form the primary 4 MHz channel of the 8 MHz S1G BSS. In a 16 MHz S1G BSS, the 2 MHz channel adjacent to the primary 2 MHz channel that together form the primary 4 MHz channel of the 16 MHz S1G BSS.

**secondary 4 MHz channel**: In an 8 MHz sub 1 GHz (S1G) basic service set (BSS), the 4 MHz channel adjacent to the primary 4 MHz channel that together form the 8 MHz channel of the 8 MHz S1G BSS. In a 16 MHz S1G BSS, the 4 MHz channel adjacent to the primary 4 MHz channel that together form the primary 80 MHz channel.

**secondary 8 MHz channel**: In an 16 MHz sub 1 GHz (S1G) basic service set (BSS), the 8 MHz channel adjacent to the primary 8 MHz channel that together form the 16 MHz channel of the 16 MHz S1G BSS.

**sub 1 GHz modulation and coding scheme (S1G-MCS)**: A specification of the sub 1 GHz (S1G) physical layer (PHY) parameters that consists of modulation order (e.g., BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM) and forward error correction (FEC) coding rate (e.g., 1/2 rep2, 1/2, 2/3, 3/4, 5/6) that is used in a S1G PPDU.

**sub 1 GHz (S1G) physical layer protocol data unit (PPDU)**: A PPDU transmitted with the TXVECTOR parameter FORMAT equal to S1G, S1G\_DUP\_1M or S1G\_DUP\_2M.