IEEE P802.11
Wireless LANs

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| +HTC subfield and HT Control field clarifications for DMG |
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Abstract

Proposed resolution to CID 2219 (rejected), plus some suggested text changes unrelated to CID 2219. Text changes are relative to 11me Draft 1.1.

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| 2219 | 9.2.4.6 | 922 | 25 | The format of HT Control for DMG and EDMG is not clear from REVme text (11ax additions do not help either). | Clarify the HT Control format for DMG and EDMG. |

**Discussion**

HT Control filed of the MAC header is not present in DMG,and upon a second review we find the text consistent.

**Proposed Resolution to CID 2219**

Rejected, the HT Control field is not present in frames transmitted by DMG STAs.

**Further discussion**

During review, we found language for +HTC subfield and HT Control field definitions can be improved (including removing redundant sentences). We show the suggested edits below.

***Editor: Please modify 9.2.4.1.10 as follows:***

**9.2.4.1.10 +HTC subfield**

The +HTC subfield, when set to 1, indicates the presence of the HT Control field (see 9.2.4.6 (HT Control field)). It is set as follows:

— It is set to 1 in a QoS Data or Management frame transmitted with the FORMAT parameter of the

TXVECTOR set to HT\_GF, HT\_MF, VHT or S1G to indicate that the frame contains an HT

Control field.

— It is set to 1 in an RTS frame transmitted with the FORMAT parameter of the TXVECTOR set to

S1G to indicate that the intended recipient of the frame has permission to extend the TXOP as

described in 10.54.5.4 (Relay-shared TXOP protection mechanisms).

— It is set to 1 in a QoS Data or Management frame transmitted by a CMMG STA to indicate that the

frame contains a CMMG variant HT Control field.

— It is set to 1 in a QoS Data, QoS Null, or Management frame transmitted by an HE STA to another

HE STA to indicate that the frame contains an HT Control field.

Otherwise, the +HTC subfield is set to 0.

NOTE—The +HTC subfield is always set to 0 for frames transmitted by a DMG STA.

***Editor: Please modify the first paragraph in 9.2.4.6.1 as follows:***

**9.2.4.6 HT Control field**

**9.2.4.6.1 General**

The HT Control field is always present in a Control Wrapper frame and is present in QoS Data, QoS Null, and Management frames that have the +HTC subfield of the Frame Control field (see 9.2.4.1.10 (+HTC subfield)) set to 1.

The HT Control field is not present otherwise.

***Editor: Please modify the first paragraph in 9.3.2.1 as follows:***

**9.3.2 Data frames**

**9.3.2.1 Format of Data frames**

**9.3.2.1.1 General**

The format of a Data frame is defined in Figure 9-111 (Data frame format). The Frame Control, Duration, Address 1, Address 2, Address 3, and Sequence Control fields are present in all data frame subtypes. The presence of the Address 4 field is determined by the setting of the To DS and From DS subfields of the Frame Control field (see below). The presence of the QoS Control field is indicated by the QoS subfield of the Subtype subfield (see 9.2.4.1.3 (Type and Subtype subfields) of the Frame Control field. The presence of the HT Control field is indicated by the +HTC subfield of the Frame Control field (see 9.2.4.1.10 (+HTC subfield)).

***Editor: Please modify the first paragraph in 9.3.2.1 as follows:***

**9.3.2.1.3 Other MAC Header fields**

The Sequence Control field is defined in 9.2.4.4 (Sequence Control field).

The QoS Control field is defined in 9.2.4.5 (QoS Control field). The presence of the QoS Control field is determined by the Subtype subfield of the Frame Control field, as specified in 9.2.4.1.3 (Type and Subtype subfields).

The HT Control field is defined in 9.2.4.6 (HT Control field).

***Editor: Please modify the first paragraph in 9.3.3.1 as follows:***

**9.3.3 (PV0) Management frames**

**9.3.3.1 Format of (PV0) Management frames**

The format of a Management frame is defined in Figure 9-120 (Management frame format). The Frame Control, Duration, Address 1, Address 2, Address 3, and Sequence Control fields are present in all management frame subtypes. The maximum size of an MMPDU that is not carried in a VHT or S1G PPDU is defined in Table 9-34 (Maximum data unit sizes (in octets) and durations (in microseconds)(#1327)). The presence of the HT Control field is indicated by the +HTC subfield of the Frame Control field (see 9.2.4.1.10 (+HTC subfield). The maximum size of an MMPDU that is carried in one or more VHT or S1G PPDUs (in whole or in part) is the maximum MPDU size supported by the recipient or, if there is more than one recipient, the smallest of the maximum MPDU sizes supported by the recipients less the shortest Management frame MAC header and FCS.

***Editor: Please modify this sentence in 9.3.3.1 (P1017L8) as follows:***

The HT Control field is defined in 9.2.4.6 (HT Control field).