Project	**IEEE 802.16 Broadband Wireless Access Working Group <**http://ieee802.org/16**>**
Title	**Proposed Changes in 16m/D2 Related to Multiplexing Extended Header (MEH) (15.2.2.2.3)**
Date Submitted	**2009-11-06**
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Re:	IEEE 802.16 Working Group Letter Ballot #30a on P802.16m/D2
Abstract	The contribution proposes the changes in 16m/D2 regarding Multiplexing Extended Header (MEH).
Purpose	To be discussed and adopted by TGm for the 802.16m DRAFT amendment.
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Proposed Changes in 802.16m/D2 Related to Multiplexing Extended Header (MEH) (15.2.2.2.3)

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1 Introduction

Based on the current MEH design, the MEH cannot be used by itself, and it has to be used in combination with FPEH /FEH. Well, the information provided in FPEH / FEH is not really needed to all the multiplexed payload units, e.g., a MAC SDU from non-ARQ connections, not fragmented and not packed. For efficient encoding of our MAC PDUs, we shall not include any unnecessary info in a MAC PDU.

This contribution proposes the changes in 802.16m/D2 to remove such inefficiency.

2 Suggested changes in the 802.16m/D2

Based on the above discussion, we propose the following changes in the 802.16m/D2. Note that the new text is marked with blue and underline; the deleted text are marked with red and strikethrough.

Suggested change #1: page 23, line 35

Replace the Table 661 by the following table:

Table 727—MEH Format

Syntax	Size (bit)	Notes
MEH {		
Last	1	0 = another extended header follows MEH 1 = another extended header does not follow MEH
Type	TBD	MEH Type
Num Flows		Number of Flow information present in the MEH, If 'n' connections are multiplexed, 'n-1' Flow IDs and Lengths are present. .
for (i=1; i< = num flows; i++) {		

Flow ID		Flow Identifier. The 'i'th Flow ID indicates the Flow ID of the 'i+1'th connection.
Length		Length of the connection payload. The 'i'th length field indicates the length of the payload of the 'i+1'th connection. The length of the payload of the first connection is given by "MAC PDU payload length – sum of 'n-1' Length fields".
FPEH inclusion indicator	1	Indicates whether or not a FPEH is included for the connection: 0 = FPEH is not included. 1= FPEH is included.
}		
Reserved	variable	Reserved bits are added at the end of MEH for byte alignment.
}		

3   References

[1] IEEE Std 802.16-2009

[2] IEEE P802.16m/D2, "DRAFT Amendment to IEEE Standard for Local and metropolitan area networks"