

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Extendibility of the MAC Signaling Header Design (16.2.2.1.3)	
Date Submitted	2009-12-31	
Source(s)	Lei Wang InterDigital Communications, LLC	Voice : +1 858 205-7286 E-mail: leiw@billeigean.com
Re:	IEEE 802.16 Working Group Letter Ballot #30b on P802.16m/D3	
Abstract	The contribution addresses the extendibility issue of the MAC signaling header design (16.2.2.1.3).	
Purpose	To be discussed and adopted by TGm for the 802.16m DRAFT amendment.	
Notice	<i>This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups.</i> It represents only the views of the participants listed in the "Source(s)" field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein.	
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.	
Patent Policy	The contributor is familiar with the IEEE-SA Patent Policy and Procedures: < http://standards.ieee.org/guides/bylaws/sect6-7.html#6 > and < http://standards.ieee.org/guides/opman/sect6.html#6.3 >. Further information is located at < http://standards.ieee.org/board/pat/pat-material.html > and < http://standards.ieee.org/board/pat >.	

Extendibility of the MAC Signaling Header Design (16.2.2.1.3)

Lei Wang

InterDigital Communications, LLC

1 Introduction

This contribution proposes to have the type 0b1111 reserved as extended type code in the MAC signaling header design, in order to address the extendibility issue of the MAC signaling header.

2 Suggested changes in the 802.16m/D3

The following are the proposed changes in the 802.16m/D3. Note that the new text is marked with blue and underline; the deleted text are marked with red and strikethrough.

Suggested change #1: page 22, line 34

Change Table 656 as follows:

Table 656—Type field encodings for MAC signaling header type

Type field (4)bits	MAC Signaling Header Type
0000	BR with STID
0001	BR without STID
0010	Service specific BR without STID
0011	Sleep Control
0100- 1111 - <u>0110</u>	Reserved
<u>1111</u>	<u>Extended MAC Signaling Header</u>

Suggested change #2: page 22, line 52

Insert the following text and Table:

[The Extended MAC signaling header format is defined in Table 656a.](#)

[Table 656a—Extended MAC Signaling Header format](#)

<u>Syntax</u>	<u>Size (bits)</u>	<u>Notes</u>
<u>Extended MAC Signaling Header() {</u>		
<u>FlowID</u>	<u>4</u>	<u>Flow Identifier. This field indicates MAC signaling header.</u>
<u>Type</u>	<u>4</u>	<u>MAC signaling header type = 0b1111, indicating Extended MAC signaling header</u>
<u>Length</u>	<u>3</u>	<u>Length in bytes of the Extended MAC signaling header, including all the fields in this Table.</u>
<u>Extended-Type</u>	<u>5</u>	<u>Extended MAC signaling type.</u>
<u>Extended MAC signaling header Body</u>	<u>variable</u>	<u>The contents of the extended MAC signaling header. Its size can be derived from the length field.</u>
<u>}</u>		

3 References

[1] IEEE Std 802.16-2009

[2] IEEE P802.16m/D3, "DRAFT Amendment to IEEE Standard for Local and metropolitan area networks"