

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>E-MBS Convergence Sublayer</b>	
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Re:	IEEE 802.16m-08/052: Call for Comments on Project 802.16m System Description Document (SDD), as	
Abstract	The E-MBS Convergence Sublayer is inadequately described in the SDD. This contribution suggest some text.	
Purpose	Review and adopt	
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## **E-MBS Convergence Sublayer**

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### **Background**

Section 8.3 describes the E-MBS protocol structure and contains Figure 15, which shows a functional block called the E-MBS Convergence Sublayer. There is no description of what this block is or does in the text.

Furthermore, Section 9, Convergence Sub-layer, is empty. It is not quite clear what the function of the CS is. Section 10.7, however, addresses the CS and states that classification is assumed performed at the upper layers.

This text should be moved to section 9. In addition, section 9 should describe the support for E-MBS, in particular the support for outer-coding, which is mentioned in section 14.4.3.2.

### **Proposed Changes**

*In section 8.3, page 33, line 17, insert a new paragraph as follows:*

E-MBS Convergence Sublayer: This block provides support for FEC (14.4.3.2) for selected E-MBS streams.

*In section 9, page 34, line 1, insert a new subsection heading as follows:*

#### **9.1 Classification**

*Copy the subsection body from section 10.7, page 55, lines 25-27, to section 9.1, and delete section 10.7.*

*In section 9, page 34, line 1, insert a new subsection as follows:*

#### **9.2 E-MBS Support**

For selected broadcast or multicast streams, the ABS may elect to perform outer-coding to complement the FEC that is provided at the PHY layer. The parameters associated with such coding that the AMS needs in order to decode the data are signaled over the air in MAC management messages.

When outer coding is applied to an MBS stream, the ABS partitions the stream into data block, such that each data block is transmitted during one MBS Scheduling Interval (see 14.4.2.2). Scheduling and transmission of data and DL control information is described in section 14.4.1.3.

At the AMS, the CS decodes the received data and forwards the data to the upper layer.

*In section 14.4.2.3, page 134, line 11, insert a sentence as follows:*

To achieve time diversity gain, data for a stream may be transmitted over multiple bursts in one MSI.