Project	IEEE 802.16 Broadband Wireless Access Working Group < <u>http://ieee802.org/16</u> >		
Title	Data broadcasting corrections		
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Re:	IEEE P802.16d/D5-2004		
Abstract	Data broadcasting is a broken feature in 16d, this contribution presents a proposal correction.		
Purpose	Adopt changes.		
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Data broadcasting support correction

Yigal Eliaspur

1. Motivation

The data broadcasting feature is a broken feature in 16d. In 16d there might be two types of broadcasting DL traffic: Management traffic and Data traffic. The only way to distinguish between Management PDU and Data PDU is by looking on the PDU's associated CID.

Because there is only one broadcast CID defined (0xffff), PDU parsing is not well defined. The SS can not distinguish between the two PDU types in the broadcast case.

2. Details

The proposal will be to use the 0xffff CID only for MAC Management messages and to use DSX multicast mechanism to create a broadcast downlink data CID.

3. Changes summary

[Make the following changes to section 10.4 Page 647 Table 343]

Broadcast CID	0xFFFF	Used for broadcast information Management
		Messages that is are transmitted on a
		downlink to all SS.

[Make the following changes to section 6.3.13]

6.3.13 Establishment of multicast and broadcast connections

The BS may establish a downlink multicast or broadcast service by creating a connection with each SS to be associated with the service. Any available traffic CID value may be used for the service (i.e. there are no dedicated CIDs for multicast transport connections). For networks of BS employing synchronized transmissions of common multicast or broadcast data, some traffic CID values may be assigned for the service (.i.e. there may be some dedicated CIDs for multicast transport connections). To ensure proper multicast or broadcast operation, the CID used for the service is the same for all SSs on the same channel that participate in the connection. To ensure proper multicast or broadcast operation on networks of BS employing synchronized transmissions of common multicast or broadcast data, the CID used for the service may be the same for all BS and SSs on the same channel that participate in the connection. The SSs need not be aware that the connection is a multicast connection. The data transmitted on the connection with the given CID shall be received and processed by the MAC of each involved SS. Thus each multicast or broadcast SDU is transmitted only once per BS channel. Since a multicast or broadcast connection is associated with a service flow, it is associated with the QoS and traffic parameters for that service flow.