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Title	**Clarification for power control operation for UL MAC management message**
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Re:	Call for contributions, IEEE P802.16e-2005 Sponsor Ballot
Abstract	This document suggests changes in TGe Draft Document IEEE 802.16e-2005 to clarify the power control operation for UL MAC management message
Purpose	Adopt into the current TGe working draft
Notice	
Release	
Patent Policy and Procedures	

Clarification for Power Control Operation for UL MAC management message

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Background

During the operation of UL power control, there is an incompleteness regarding UL MAC management message. In the current standard [1][2], there is no mechanism to protect the UL MAC management message relative to the normal traffic burst. Therefore, in order not to lose performance, certain mechanism to enhance the reliability for UL MAC management message is required, and the power boosting for this message is beneficial.

Proposed Remedy

Proposed remedy is to introduce an UCD TLV which defines a power offset for UL burst containing MAC management message with respect to normal traffic burst.

Proposed Text Changes

8.4.10.3 Power control

[Insert the following text at the end of Sec 8.4.10.3 Power Control]

"When the MS transmits an UL burst containing MAC management message (PDUs which have Basic CID, Primary management CID, or Secondary management CID), the transmit power for the burst shall be boosted by the amount of the value indicated by 'Relative Power Offset for UL Burst Containing MAC Management Message' in UCD."

11.3.1 UCD channel encodings

[Insert the following entry in Table 353(UCD PHY-specific channel encodings--WirelessMAN-OFDMA)]

Name	Type (1 Byte)	Length	Value
Relative Power Offset for UL Burst Containing MAC Management Message	206	1	Bit #0~2: Power offset for UL burst containing MAC management message relative to the normal traffic burst (unsigned integer in 0.5dB unit) Bit #3~7: reserved (Shall be set to zero)

			If this TLV is not present, the default value of the power offset shall be equal to zero.

References

[1] IEEE Std 802.16e 2005 and IEEE Std 802.16 2004/Cor1 2005 (Amendment and Corrigendum to IEEE Std 802.16 2004)

[2] IEEE Std 802.16-Cor2/D2