Project	**IEEE 802.16 Broadband Wireless Access Working Group <**http://ieee802.org/16**>**
Title	**Generic ACK MAC Management Message**
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Re:	This is in response for call for proposals 80216j-07_019.pdf
Abstract	Proposing generic ACK MAC management message for sending acknowledgement
Purpose	Review and adopt
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Generic ACK MAC Management Message

Introduction

In IEEE 802.16j baseline document (80216j-06_026r4.pdf), multiple ACK MAC management messages are proposed for sending acknowledgement. Message contains of all these ACK MAC management messages are very similar.
In order to simplify and conserve the number of MAC Management types, we propose to have one Generic ACK MAC management message that can be sent for acknowledging any MAC Management message if required.

We also proposing to remove all other ACK messages defined in the current baseline document. The lists of messages that we propose to remove are following:

- MS_SCN-ACK (section 6.3.2.3.71)
- MS_DEL-ACK (section 6.3.2.3.74)
- SLP_INF-ACK (section 6.3.2.3.83)
- STA-ACK (section 6.3.2.3.85)
- RS_PATH-RSP (section 6.3.2.3.87)

Specification changes

[Insert new subclause 6.3.2.3.xx]

6.3.2.3.xx MR_Generic-ACK message

Either MR-BS or RS ~~can~~ may send this message to acknowledge the receipt of any of the following message:

- MS_SCN-INF
- MS_INFO-DEL
- MR_SLP-INFO
- STA-INFO
- RS_PATH-REQ

This message is sent using RS basic CID. The message format of MR_Generic-ACK message is shown in Table xxx.

Table xxx – MR_Generic_ACK message format

Syntax	Size	Note
MR_Generic-ACK message format() {		
Management Message Type = TBA	8 bits	
Transaction ID	16 bits	
TLV encoded information	Variable	TLV Specific
}		

The following parameters shall be included in the message:

Transaction ID

Transaction ID is from corresponding MAC management message.

The MR_Generic-ACK message may include the following parameter encoded as TLV tuples:

HMAC/CMAC Tuple (see 11.1.2)

The HMAC/CMAC Tuple attribute contains a keyed message digest (to authenticate the sender). The HMAC Tuple attribute shall be the final attribute in the message.

[delete subclause 6.3.2.3.71, 6.3.2.3.74, 6.3.2.3.83, 6.3.2.3.85 and 6.3.2.3.87]

[replace all instances of MS_SCN-ACK, MS_DEL_ACK, SLP_INF-ACK, STA-ACK and RS_PATH-RSP with MR_Generic-ACK]

[add transaction ID in RS_PATH-REQ messages]

[change "message number" in STA-INFO message to "transaction ID" and make it 16 bits long]

[remove message_type from the ACK Header and make transaction ID 16 bits long]