

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Proposed Change on AAI-MG-IND over IEEE 802.16.1a	
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Source(s)	Eunkyung Kim, Sungcheol Chang, Won-Ik Kim, Seokki Kim, Sungkyung Kim, Miyoung Yun, Hyun Lee, Chulsik Yoon, Kwangjae Lim ETRI	Voice: +82-42-860-5415 E-mail: ekkim@etri.re.kr scchang@etri.re.kr
Re:	“IEEE 802.16n-11/0020,” in response to Call for Comments on GRIDMAN AWD	
Abstract	AAI-MG-IND message format clarification on IEEE 802.16 GRIDMAN Amendment Draft Standard	
Purpose	To discuss and adopt the proposed text in the draft amendment document on GRIDMAN	
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Proposed Change on AAI-MG-IND over IEEE 802.16.1a

Eunkyung Kim, Sungcheol Chang, Won-Ik Kim, Seokki Kim, Sungkyung Kim, Miyoung Yun, Hyun Lee, Chulsik Yoon, Kwangjae Lim
ETRI

1. Introduction

In IEEE 802.16.1a[3] (i.e., over WirelessMAN-AAI[5]), AAI-MG-IND may indicate without help of MT-IND in the following cases:

- perform network entry or exit sleep mode
- perform ranging procedure with ranging purpose indication is set to HR multicast service flow update
- receiving multicast traffic

Thus, this document provides the change on the AAI-MG-IND message format in IEEE 802.16.1a[3] (i.e., over WirelessMAN-AAI[5]).

2. References

- [1] IEEE 802.16n-10/0048r2, 802.16n System Requirement Document including SARM annex, July 2011.
- [2] IEEE 802.16n-11/0024, P802.16n Draft AWD, October 2011.
- [3] IEEE 802.16n-11/0025, P802.16.1a Draft AWD, October 2011.
- [4] IEEE P802.16Rev3/D2, IEEE Draft Standard for Local and metropolitan area networks; Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems,” October 2011.
- [5] IEEE P802.16.1TM/D2, [Draft] WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems, October 2011.

3. Proposed Text on the IEEE 802.16.1a Amendment Draft Standard

Note:

The text in **BLACK** color: the existing text in the IEEE 802.16 GRIDMAN AWD

The text in **RED** color: the removal of existing IEEE 802.16 GRIDMAN AWD

The text in **BLUE** color: the new text added to the IEEE 802.16 GRIDMAN AWD

[-----Start of Text Proposal-----]

[Remedy: Change the Table 763mc1-AAI-MG-IND message description in 6.2.3.65.49 AAI-MG-IND at page 76 in the 802.16.1a AWD as indicated:]

<u>Field</u>	<u>Size (bits)</u>	<u>Value/Description</u>	<u>Condition</u>
<u>Indication type</u>	<u>1</u>	<u>0b0: full MGID indication</u> <u>0b1: MGINd+MTIND indication</u>	
<u>If (Indication type == 0b0) {</u>			
<u>For(i=0; i<Num_MGID;i++){</u>		<u>Num_MGID is the number of multicast group to indicate multicast traffic is transmitting.</u> <u>Range : 0 ~ 32</u>	
<u>Multicast Group ID</u>	<u>12</u>		
<u>Action Code</u>	<u>3</u>	<u>if bit0 = 1, perform network entry or exit sleep mode</u> <u>if bit1 = 1, perform ranging procedure with ranging purpose indication set to 00b1110</u> <u>if bit2 = 1, receiving multicast</u>	
<u>if (Action Code bit2 == 1) {</u>			
<u>Offset of multicast traffic</u>	<u>4</u>	<u>frame number offset in which the ABS transmits multicast traffic</u>	<u>Shall be present</u>
<u>}</u>			
<u>}</u>			
<u>}Else if(Indication type == 0b1) {</u>			
<u>MGINd bitmap</u>	<u>M(=6 4)</u>	<u>Indicates whether a corresponding subgroup of multicast group has multicast data to transmit, where the N-th bit of MGINd bitmap [MSB corresponds to N = 0] corresponds to MGIDs in a subgroup ($2^{12 \times N/M}$ to $2^{12 \times (N+1)/M-1}$)</u> <u>0: There is no multicast traffic for any of multicast groups in the corresponding multicast subgroup</u> <u>1: There is multicast traffic for at least one multicast group in the corresponding multicast subgroup</u>	

<u>For (i=0; i<L; i++) {</u>			<u>L equals the number of bits in MGIND bitmap whose bit is set to 1.</u>
<u>Offset of multicast AAI-MT-IND message</u>	<u>2</u>	<u>frame number offset in which the ABS transmits AAI-MT-IND message</u> <u>0b00: first frame of this superframe</u> <u>0b01: second frame of this superframe</u> <u>0b10: third frame of this superframe</u> <u>0b11: fourth frame of this superframe</u>	<u>Shall be present</u>
<u>}</u>			
<u>}</u>			

[-----End of Text Proposal-----]