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| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | **Clarification on AAI-HR-RNG-REP message in IEEE 802.16.1a** | |
| Date Submitted | **2012-05-14** | |
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| Re: | In response to Letter Ballot #38 Recirculation on P802.16.1a/D2 | |
| Abstract | This contribution proposes text changes to clarify AAI-HR-RNG-REP message. | |
| Purpose | To discuss and adopt the proposed texts in the IEEE 802.16.1a Draft Standard. | |
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Clarification on AAI-HR-RNG-REP Message

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ETRI

# Introduction

The current text describing AAI-HR-RNG-REP message seems unclear, and there is an error in a unit of timing offset defined in AAI-HR-RNG-REP.

# References

[1] IEEE P802.16.1aTM/D2, WirelessMAN-Advanced Air Interface for Broadband Access Systems - Draft Amendment: Higher Reliability Networks, Apr. 2012.

[2] IEEE P802.16.1TM/D6, IEEE Draft for WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems, Apr. 2012.

# Proposed Texts on the IEEE 802.16.1a Amendment Draft Standard

The proposed texts are written in three different types of fonts according to each change purpose as follows.

The same texts in the current draft: black

The texts to be deleted by this contribution: ~~red strikeout~~

The texts to be added by this contribution: blue underline

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

*[Modify the current sentence and Table106m in Section 6.2.3.65.13 on Page 64 in the IEEE P802.16.1a/D2 Draft Standard as follows.]*

An HR-MS instructed to receive the ranging signals from other HR-MS ~~shall~~ reports the measurements of those signals ~~it can properly decode in~~ via the AAI-HR-RNG-REP message if the HR-MS decodes them properly.

**Table 106m – AAI-HR-RNG-REP message field description**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Size**  **(bits)** | **Value/Description** | **Condition** |
| … | … | … | … |
| Timing offset | 15 | Time offset, in units of 1/*Fs*, of the received ranging signal, with respect to the frame timing of the HR-MS.  MSB 1 bit represents the sign of the value.  That is, the value is negative(–) if the  MSB=0b1, and the value is positive(+) if  the MSB=0b0. LSB 14 bits represent  timing offset correction value of  [1…16384] that corresponds to 0x0000 ~  0x3FFF, respectively. | Optional |
| … | … | … | … |

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