

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Comment on AAI-RNG-REQ Message over IEEE 802.16.1a	
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Re:	“IEEE 802.16-12-271,” in response to Letter Ballot Recirc #38a on P802.16.1a/D2	
Abstract	Comments on AAI-RNG-REQ message in GRIDMAN Draft Standard	
Purpose	To discuss and adopt the proposed text in the draft amendment document on GRIDMAN	
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Comment on AAI-RNG-REQ Message over IEEE 802.16.1a

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1. Introduction

This document provides clarification on extended ranging purpose indication in AAI-RNG-REQ message.

2. References

- [1] IEEE 802.16-12-0132-00, GRIDMAN System Requirement Document including SARM annex, January 2012.
- [2] IEEE P802.16nTM/D2, Air Interface for Broadband Wireless Access Systems - Draft Amendment: Higher Reliability Networks, April 2012.
- [3] IEEE P802.16.1aTM/D2, WirelessMAN-Advanced Air Interface for Broadband Access Systems - Draft Amendment: Higher Reliability Networks, April 2012.
- [4] IEEE P802.16Rev3/D6, IEEE Draft Standard for Local and metropolitan area networks; Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems,” April 2012.
- [5] IEEE P802.16.1TM/D6, IEEE Draft for WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems, April 2012.

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

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

[Remedy1: change Table 27 - AAI-RNG-REQ message field description, page 10 on P802.16.1a/D2 as follows:]

6.2.3.1 AAI-RNG-REQ

Change Table ~~27~~30 in section 6.2.3.1 as indicated:

Table 2730 - AAI-RNG-REQ message field description

Field	Size (bits)	Value/Description	Condition
.....
<u>} else if (Ranging Purpose Indication == 0b1110) {</u>		<u>// Ranging purpose for HR-Network</u>	
<u>Extended Ranging Purpose Indication</u>	<u>4</u>	<u>0b0000 = Ranging request for HR multicast service location update</u> <u>0b0001 = Network reentry for FBIS operation</u> <u>0b0010 = Network reentry from idle mode for extension of TDC</u> <u>0b0011-0b1111 = reserved</u>	
<u>if (Extended Ranging Purpose Indication == 0b0000) {</u>		<u>// Ranging request for HR multicast service</u>	
<u>action code</u>	<u>3</u>	<u>bit0: multicast service flow update</u> <u>bit1: location update due to multicast zone change</u> <u>bit2: multicast security key update</u>	
<u>if (action code bit0 is set) {</u>			
.....

[Remedy2: change line #21, page 222 - line #7, page 223 on P802.16.1a/D2 as follows:]

```

RedirectionInfo ::=
    absidForNeighborABS
    preambleForNeighborABS
    centerFreqForNeighborABS
}

RNGPurposeForHRNetwork ::=
    extendedRngPurposeInd
    hrMulticastServiceRangingLocationUpdate
HrMulticastServiceRangingLocationUpdate,
    networkReentryForFBISOperation
    networkReentryFromIdleModeForExtenOfTDC
    ...
}

HrMulticastServiceRangingLocationUpdate ::= SEQUENCE {
    actionCode
    multicastServiceFlowUpdate
    BSID,
    PreambleIndex,
    CenterFreq
    CHOICE {
        NetworkReentryForFBISOperation,
        BOOLEAN,
        ...
    }
    BIT STRING {
        (0),

```

```

        locationUpdateDueToMulticastZoneChange      (1),
        multicastSecurityKeyUpdate                  (2)
    } (SIZE(3)),
locationUpdateMulticastFlows                        LocationUpdate
}

NetworkReentryForFBISOperation ::=
    SEQUENCE {
        isStidPreAssigned                          CHOICE {
            -- be selected if STID is not pre assigned
            stidInfo                               SEQUENCE {
                servingBsid                        BSID,
                previousSTID                       STID
            },
            -- be selected if STID is pre assigned
            currentSTID                            STID
        },
        akCount                                    OPTIONAL,
        -- Primary serving ABS flag
        -- set to 0 when the AMS sets its primary serving ABS as S-ABS (Degraded HR-BS)
        -- after network reentry
        -- set to 1 when the AMS sets its primary serving ABS as T-ABS (Target HR-BS)
        -- after network reentry
        primaryServingAbsFlag                      BOOLEAN,
        switchedAccessWindowSize                   CHOICE {
            -- be selected if switch access mode is fixed switched access windows
            switchedAccessWindowSize               SwitchAccessWindowsSize,
            -- be selected if switch access mode is variable switched access windows
            maximumSwitchedAccessWindowSize       MAXSwitchAccessWindowsSize
        },
        switchedAccessStartTime                    SwitchAccessStartTime
    }
}

```

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