<table>
<thead>
<tr>
<th>Project</th>
<th>IEEE 802.16 Broadband Wireless Access Working Group <a href="http://ieee802.org/16">http://ieee802.org/16</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Comment on AAI-RNG-REQ Message over IEEE 802.16.1a</td>
</tr>
<tr>
<td>Date Submitted</td>
<td>2012-05-04</td>
</tr>
<tr>
<td>Source(s)</td>
<td>Eunkyung Kim, Sungcheol Chang, Won-Ik Kim, Seokki Kim, Sungkyung Kim, Miyoung Yun, Hyun Lee, Chulsik Yoon, Jaesun Cha, Soojung Jung, Anseok Lee, Wooram Shin, Kwangjae Lim</td>
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</tr>
<tr>
<td>Re:</td>
<td>“IEEE 802.16-12-271,” in response to Letter Ballot Recirc #38a on P802.16.1a/D2</td>
</tr>
<tr>
<td>Abstract</td>
<td>Comments on AAI-RNG-REQ message in GRIDMAN Draft Standard</td>
</tr>
<tr>
<td>Purpose</td>
<td>To discuss and adopt the proposed text in the draft amendment document on GRIDMAN</td>
</tr>
<tr>
<td>Notice</td>
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</table>
Comment on AAI-RNG-REQ Message over IEEE 802.16.1a

Eunkyung Kim, Sungcheol Chang, Won-Ik Kim, Seokki Kim, Sungkyung Kim, Miyoung Yun, Hyun Lee, Chulsik Yoon, Jaesun Cha, Soojung Jung, Anseok Lee, Wooram Shin, Kwangjae Lim
ETRI

1. Introduction

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

2. References


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 2230 in section 6.2.3.1 as indicated:
Table 2730 - AAI-RNG-REQ message field description

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

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

RedirectionInfo ::= SEQUENCE {
  absidForNeighborABS BSID,
  preambleForNeighborABS PreambleIndex,
  centerFreqForNeighborABS CenterFreq
}

RNGPurposeForHRNetwork ::= SEQUENCE {
  extendedRngPurposeInd CHOICE {
    hrMulticastServiceRangingLocationUpdate,
    networkReentryForFBISOperation NetworkReentryForFBISOperation,
    networkReentryFromIdleModeForExtenOfTDC BOOLEAN,
    ...
  }
}

hrMulticastServiceRangingLocationUpdate ::= SEQUENCE {
  actionCode BIT STRING {
    multicastServiceFlowUpdate 0,
  }
}
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 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)
    primaryServingAbsFlag BOOLEAN,
    switchedAccessWindowSize CHOICE {
        -- be selected if switch access mode is fixed switched access windows
        switchedAccessWindowSize SwitchAccessWindowSize,
        -- be selected if switch access mode is variable switched access windows
        maximumSwitchedAccessWindowSize MAXSwitchAccessWindowSize
    }
    switchedAccessStartTime SwitchAccessStartTime
}