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| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | **Correction of Ranging Purpose Indication Parameter** | |
| Date Submitted | **2012-05-16** | |
| Source(s) | Jaesun Cha | E-mail: [jscha@etri.re.kr](mailto:jscha@etri.re.kr)  \*<<http://standards.ieee.org/faqs/affiliationFAQ.html>> |
| Re: | Sponsor Ballot Recirculation on P802.16p/D4 | |
| Abstract | This contribution proposes some correction of ranging purpose indication parameter. | |
| Purpose | For discussion in M2M TG and adoption into 16.p draft | |
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**Modification of MOB\_MTE-IND Message**

Jaesun Cha

ETRI

# Introduction

The purpose of this contribution is to change ranging purpose indication parameter in RNG-REQ message to resolve inconsistency between 16n and 16p draft.

# Proposed Texts

----------------- Start of the text proposal --------------------------------------------------------------------------------------

[***Change texts on page 8, line 15 as follows***]

**6.3.2.3.5 RNG-REQ (ranging request) message**

***Change the paragraph as indicated***

The following TLV parameter shall be included in the RNG-REQ message when the MS is attempting to perform reentry, HO, or location update or abnormal power down reporting:

**Ranging Purpose Indication**

The presence of this item in the message indicates the following MS action:

If Bit 0 is set to 1, in combination with a serving BSID, it indicates that the MS is currently attempting to HO or reentry; or, in combination with a Paging Controller ID, indicates that the MS is attempting network reentry from idle mode to the BS.

If Bit 1 is set to 1, it indicates that the MS is initiating the idle mode location update pro­cess.

Bit 2: Seamless HO indication. When this bit is set to 1 in combination with other included information elements, it indicates the MS is initiating ranging as part of seamless HO pro­cedure.

Bit 3: Ranging Request for Emergency Call Setup. When this bit is set to 1, it indicates MS action of Emergency Call Process.

Bit 4: MBS update. When this bit is set to 1, the MS is currently attempting to perform location update due to a need to update service flow management encodings for MBS flows.

Bit 5: Network Reentry from idle mode of MS which has entered idle mode in AAI-only

ABS

Bits 6~~–7~~: *Reserved*

~~Bits 5-7: Reserved Power down reporting indication. When these bits are set to 001, by an M2M device it indicates that an abnormal or involuntary power down has occurred.~~

Bits 7: Power down reporting indication. When these bits are set to 001 by an M2M device, it indicates that an abnormal or involuntary power down has occurred.

[***Change Table 685 on page 35 as follows***]

Table 685 – RNG-REQ message encodings

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Length | Value | PHY scope |
| Raging Purpose Indication | 6 | 1 | Bit 0: HO indication (when this bit is set to 1 in combination with other included information elements indicates the MS is currently attempting to HO or network reentry from idle mode to the BS)  Bit 1: Location update request (when this bit is set to 1, it indicates MS action of idle mode location update process)  Bit 2: Seamless HO indication (when this bit is set to 1 in combination with other included information elements indicates the MS is currently initiating ranging as part of the seamless HO procedure)  Bit 3: Ranging Request for Emergency Call Setup (when this bit is set to 1, it indicates MS action of Emergency Call Process)  Bit 4: MBS update. When this bit is set to 1, the MS is currently attempting to perform location update due to a need to update service flow management encodings for MBS flow.  Bit 5: Network Reentry from idle mode of MS which has entered idle mode in AAI-only ABS  ~~Bits5-7:~~ *~~Reserved~~*  Bits 6~~-7~~: *Reserved*  ~~0b000: default~~  ~~0b001: Abnormal Power Down Indication. MS device indicates that an abnormal or involuntary power down occurs.~~  ~~0b010-0b111:~~ *~~Reserved~~*  Bit 7: Abnormal Power Down Indication. When this bit is set to 1, MS indicates that an abnormal or involuntary power down occurs. | - |
| … |  |  |  |  |

----------------- End of the text proposal ---------------------------------------------------------------------------------------