|  |  |  |
| --- | --- | --- |
| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | **Clarification of M2M Multicast Traffic Reception Timer** | |
| Date Submitted | **2012-03-09** | |
| Source(s) | Jaesun Cha, Soojung Jung, Wooram Shin, Anseok Lee, Kwangjae Lim ETRI | E-mail: [jscha@etri.re.kr](mailto:jscha@etri.re.kr)  \*<<http://standards.ieee.org/faqs/affiliationFAQ.html>> |
| Re: | Sponsor Ballot on P802.16p/D3 | |
| Abstract | This contribution clarifies a negotiation of M2M multicast traffic reception timer. | |
| Purpose | For discussion in M2M TG and adoption in to 16p draft | |
| Notice | *This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups*. It represents only the views of the participants listed in the “Source(s)” field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein. | |
| Copyright Policy | The contributor is familiar with the IEEE-SA Copyright Policy <http://standards.ieee.org/IPR/copyrightpolicy.html>. | |
| Patent Policy | The contributor is familiar with the IEEE-SA Patent Policy and Procedures:  <<http://standards.ieee.org/guides/bylaws/sect6-7.html#6>> and <<http://standards.ieee.org/guides/opman/sect6.html#6.3>>.  Further information is located at <<http://standards.ieee.org/board/pat/pat-material.html>> and <<http://standards.ieee.org/board/pat>>. | |

**Clarification of M2M Multicast Traffic Reception Timer**

Jaesun Cha, Soojung Jung, Wooram Shin, Anseok Lee, Kwangjae Lim

ETRI

# Introduction

M2M multicast traffic reception timer is used when an M2M device receives DL multicast data during idle mode. According to the current definition, M2M multicast traffic reception timer shall be included in DSA-REQ message. However, inclusion of the M2M multicast traffic reception timer should be optional because BS may provide a multicast service in idle mode with or without requiring network reentry of M2M devices. Therefore, if a service provider does not support multicast service without requiring network reentry, this parameter does not need to be included in the DSA-REQ message.

M2M multicast traffic reception timer is defined as one of service flow parameters. So, it should be included in DSA-REQ message transmitted by BS as well as DSA-RSP message transmitted by BS. But, it is not defined yet.

# Proposed Texts

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

[*Remedy 1: Modify texts on page 10, line 60 as follows;*]

**6.3.2.3.10 DSA-REQ message**

***Add the following new text to the end of 6.3.2.3.10***

When the DSA-REQ message is sent to an M2M device, the following TLV may be included:

**M2MCID (see 11.13.46)**

M2MCID associated with the SF

**Minimal Access Window Size (see 11.13.47)**

The minimal size of a window within which the M2M device shall select the start time for the network entry procedure.

When the DSA-REQ message is sent to an M2M device to establish a DL multicast service flow, the follow­ing TLV may~~shall~~ be included:

**M2M Multicast Traffic Reception timer**

The maximum time interval that M2M devices in idle mode shall wait to receive the M2M mul­ticast data, in unit of frames (0~255), as defined in 6.3.34.1.

**6.3.2.3.11 DSA-RSP message**

***Add the following new text to the end of 6.3.2.3.11***

When the DSA-RSP message is sent to an M2M device, the following TLV may be included:

**Minimal Access Window Size (see 11.13.47)**

The minimal size of a window within which the M2M device shall select the start time for the network entry procedure.

When the DSA-RSP message is sent to an M2M device to establish a DL multicast service flow, the follow­ing TLV may be included:

**M2M Multicast Traffic Reception timer**

The maximum time interval that M2M devices in idle mode shall wait to receive the M2M mul­ticast data, in unit of frames (0~255), as defined in 6.3.34.1.

**6.3.2.3.13 DSC-REQ (DSC request) message**

***Add the following new text to the end of 6.3.2.3.13***

When the DSC-REQ message is sent to an M2M device, the following TLV may be included:

**M2MCID (see 11.13.46)**

new M2MCID, replacing a previously associated M2MCID.

**Minimal Access Window Size (see 11.13.47)**

The minimal size of a window within which the M2M device shall select the start time for the network entry procedure.

When the DSC-REQ message is sent to an M2M device to establish a DL multicast service flow, the follow­ing TLV may be included:

**M2M Multicast Traffic Reception timer**

The maximum time interval that M2M devices in idle mode shall wait to receive the M2M mul­ticast data, in unit of frames (0~255), as defined in 6.3.34.1.

**6.3.2.3.14 DSC-RSP (DSC response) message**

***Add the following new text to the end of 6.3.2.3.14***

When the DSC-RSP message is sent to an M2M device, the following TLV may be included:

**Minimal Access Window Size (see 11.13.47)**

The minimal size of a window within which the M2M device shall select the start time for the network entry procedure.

When the DSC-RSP message is sent to an M2M device to establish a DL multicast service flow, the follow­ing TLV may be included:

**M2M Multicast Traffic Reception timer**

The maximum time interval that M2M devices in idle mode shall wait to receive the M2M mul­ticast data, in unit of frames (0~255), as defined in 6.3.34.1.

[*Remedy 1: Modify texts on page 37, line 61 as follows;*]

11.13.48 M2M Multicast Traffic Reception timer

M2M Multicast Traffic Reception timer TLV may be added in DSA-REQ message and be changed by DSC-REQ message if this service flow is related with M2M multicast service flow.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | Length | Value | Scope |
| M2M Multicast Traffic Reception Timer | 146.59 | 1 | The maximum time interval that M2M devices in idle mode wait to receive the M2M multicast data, in unit of frames (0~255). | DSA-REQ/RSP  DSC-REQ/RSP |

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