Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	Adding IEs for Management Signaling Messages
Date Submitted	2006-7-14
Source(s)	Ronald Mao, Zou Lan　　　　　　　[mailto:rmao@huawei.com] Huawei Technologies.
Re:	
Abstract	Adding IE for Management Signaling Messages
Purpose	This contribution is to add IE for Management Signaling Messages, this IE can be used for SS management purpose.
Notice	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.
Patent Policy and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures <http://ieee802.org/16/ipr/patents/policy.html>, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair <mailto:chair@wirelessman.org> as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site <http://ieee802.org/16/ipr/patents/notices>.

Adding IE for Management Signaling Messages
Huawei

Introduction

This contribution is to add Information Element(IE) for Management Signaling Messages.

Proposed Text

Add the following definition into 6.3.2.3.64

6.3.2.3.64 Management Signalling Messages

The following messages may be used to query and set the information elements (IE) on the SS by the BS.

6.3.2.3.64.1 Query IE Request message (QRY_IE_REQ)

[Add the following subclausess:]

The QRY_IE_REQ shall include the following TLVs.

Global parameters (see 11. x.x)
Request to query MS's global parameters as defined in subclause 10.1.

6.3.2.3.64.2 Query IE Response message (QRY_IE_RSP)

[Add the following subclausess:]

The QRY_IE_RSP shall include the following TLVs.

Global parameters (see 11. x.x)
Returns MS's global parameters as defined in subclause 10.1.

6.3.2.3.64.3 Set IE Request message (SET_IE_REQ)

[Add the following subclausess:]

The SET_IE_REQ may include the following TLVs.

Global parameters (see 11. x.x)
Request to set MS's global parameters as defined in subclause 10.1.

6.3.2.3.64.4 Set IE Response message (SET_IE_RSP)

[Add the following subclausess:]
The SET_IE_RSP may include the following TLVs.

Global parameters (see 11. x.x)
MS acknowledges the setting of MS's global parameters.

6.3.2.3.64.5 Notify IE Request message (NTF_IE_REQ)

[Add the following subclausess:]

The NTF_IE_REQ may include the following TLVs.

Global parameters (see 11. x.x)

MS notifies the change of MS's global parameters.

Information Element(IE) Name	Type	Length	Description	Scope
Lost DL Map Interval	1	2	Time since last received DL-MAP message before downlink synchronization is considered lost in ms.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
LostULMapInterval	2	2	Time since last received UL-MAP message before uplink synchronization is considered lost in ms.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
ContentionRangRetries	3	2	Number of retries on contention Ranging Requests.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
RequestRetries	4	2	Number of retries on bandwidth allocation requests.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
RegRequestRetries	5	2	Number of retries on registration requests.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
TftpBackoffStart	6	2	Initial value for TFTP backoff in second.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
TftpBackoffEnd	7	2	Last value for TFTP backoff in second.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
TftpRequestRetries	8	2	Number of retries on TFTP request.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
TftpDownloadRetries	9	2	Number of retries on entire TFTP downloads.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
SsTftpWait	10	2	The duration between two consecutive Transfer operational parameters (TFTP) retries in min.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
SsRssiLowThreshold	11	4	Low RSSI threshold for generating the RSSI alarm trap.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP
SsRssiHighThreshold	12	4	High RSSI threshold for generating a trap to indicate the RSSI is restored.	QRY_IE_REQ QRY_IE_RSP SET_IE_REQ SET_IE_RSP

| SsRssiStatus | 13 | 2 | A RSSI notification is generated if the RSSI is lower than wmanIfSsRssiLowThreshold, or above wmanIfSsRssiHighThreshold after alarm is restored. | NTF_IE_REQ |
| SsRssiStatusInfo | 14 | 255 | This object provides additional information about RSSI alarm. It is implementation specific | NTF_IE_REQ |