

Project	IEEE 802.16 Mobile Broadband Wireless Access Working Group < http://ieee802.org/16 >
Title	Subnet Zone ID Support
Date Submitted	[2004-05-07]
Source(s)	Yong Chang Samsung Elec. 416, Maetan-3dong, Youngtong-gu Suwon-si, Gyeonggi-do Korea
Re:	Working Group Review of P802.16-REVe_D2
Abstract	If the MSS moves the subnet boundaries, then the MSS can trigger to request re-assignment of IP address or MIP refreshment by knowing the Subnet Zone ID transmitted in NBR-ADV and PAG-ADV.
Purpose	Propose to add new Subnet Zone ID in the text of IEEE802.16REVe/D2-2004
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 >.

1

2 1. Introduction

3 Currently, the MSS in idle mode shall trigger to request new IP address or to register his Mobile IP FA address to the MIP HA
4 whenever the MSS moves the BS boundary. It is inefficient that the MSS shall trigger to do that even though the subnet is still the
5 same. This inefficiency is arisen from the absence of L2 zone ID corresponding to one subnet on broadcast CID.

6 For remedy of this inefficient problem, Subnet Zone ID is newly introduced in NBR-ADV and PAG-ADV management messages.

7 If the subnet zone id is transmitted in NBR-ADV and PAG-ADV, then the MSS will trigger to request new IP address or to register
8 its MIP FA address to MIP HA only when subnet zone is changed.

9

10 2. Changes to the standard

11 (To be appeared)