

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Redirect MS to another Channel using Frequency Offset Adjustment	
Date Submitted	2007-02-15	
Source(s)	Peretz Feder – Alcatel-Lucent Phillip Barber - Huawei Honghai Zhang – Alcatel-Lucent	pfeder@alcatel-lucent.com pbarber@broadbandmobiletech.com hozhang@alcatel-lucent.com
Re:	IEEE 802.16 Session #47 plus over the phone	
Abstract		
Purpose	Update 802.16g draft: Redirect MS to another channel using the offset freq. adjustment	
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 >.	

Redirect Using Offset Frequency Adjustment

Peretz Feder -Alcatel-Lucent
Honghai Zhang – Alcatel-Lucent
Phillip Barber - Huawei

1. Introduction

Use the Offset Frequency Adjustment in the RNG-RSP message to redirect an MS to another channel. Add the required text to the message descriptor.

2. Proposed Text Change

Remedy:

11.6 RNG-RSP management message encodings

Change subclause 11.6 as indicated:

CID update encodings (11.7.9) and SAID update encodings (11.7.18) may be used in RNG-RSP for reestablishment of connections.

Table 367—RNG-RSP message encodings

Name	Type (1 byte)	Length	Value (variable-length)	PHY Scope
Offset Frequency Adjustment	3	4	Tx frequency offset adjustment (signed 32-bit, Hz units) Specifies the relative change in transmission frequency that the SS is to make in order to better match the BS. If the value is less than half of the channel bandwidth, this is fine-frequency adjustment within a channel, otherwise, this is reassignment to a different channel. The SS shall increase its transmit frequency if the value is positive and decrease its transmit frequency if the value is negative.	All