Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >	
Title	Proposed Text of Persistent Allocation for IEEE 802.16m Amendment	
Date Submitted	2009-03-02	
Source(s)	Seho Kim, Jason Junsung Lim, Heewon Kang, Hokyu Choi Samsung Electronics Co., Ltd. Voice: +82-31-279-7351 E-mail: seho42.kim@samsung.com	
Re:	IEEE 802.16m-09/0012, "Call for Contributions on Project 802.16m Amendment Working Document (AWD) Content".	
	Target topic: "Persistent Allocation"	
Abstract	The contribution proposes the text of persistent allocation to be included in the 802.16m amendment.	
Purpose	To be discussed and adopted by TGm for the 802.16m amendment.	
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.	
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	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> .	

Proposed Text of Persistent Allocation for IEEE 802.16m Amendment

Seho Kim, Jason Junsung Lim, Heewon Kang, Hokyu Choi Samsung Electronics Co., Ltd.

1. Introduction

This contribution proposes the text amendment for persistent allocation of 802.16m based on the definition of SDD [1].

10.x Persistent Allocation

Persistent allocation is a technique used to reduce assignment overhead for connections with periodic traffic pattern and with relatively fixed payload size. The persistently allocated resource size, position and the MCS shall be maintained by the BS and MS until the persistent assignment is de-allocated, changed, or an error event occurs.

10.x.1 Persistent Scheduling

For handling persistent resources, the BS shall transmit the DL assignment IE for DL persistent allocations and the UL assignment IE for UL persistent allocations. The Allocation Period and Number of ACID required for persistent operation is configured outside of USCCH. Persistent scheduling does not include special arrangements for retransmission of data initially transmitted using persistently allocated resources. Resources for retransmission can be allocated one at a time as needed using DL/UL assignment IE.

10.x.1.1 Allocation/De-allocation

If the assignment IE Type indicates persistent allocation, the assigned resource in DL/UL assignment IE is persistently assigned with fixed resource size, position and MCS. The Allocation Period and Number of ACID required for persistent operation is configured in a DSA (dynamic service addition) message. During negotiation between BS and MS for adding new persistent allocation service, BS and MS share the Allocation period and Number of ACID required for handling a particular persistent allocation. The format of Allocation Period and Number of ACID in DSA is TBD.

Persistent allocation is de-allocated when DL assignment IE or UL assignment IE contains empty resource assignment which has zero LRU assignment in Resource Allocation field.

10.x.1.2 Assignment Replacement

To adapt radio channel variation and avoid resource hole, the persistently allocated resource can be changed. To change the persistent assignment, the BS shall transmit the DL assignment IE for DL reallocations and the UL assignment IE for UL reallocations. If the assignment IE Type indicates persistent allocation and the ACID assigned in DL/UL assignment IE is equivalent to the ACID of persistent allocation assigned in a particular subframe, the MS shall assume that the previous persistent allocation is replaced to the assignment indicated in

DL assignment IE or UL as	nment IE.
	End of Proposed Amendment Text
References	

 $[1] \ \ IEEE \ 802.16m-08/003r7, \ "The \ Draft \ IEEE \ 802.16m \ System \ Description \ Document"$