

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>Proposed Text on BW-REQ Channel for Baseline Content of Uplink Control Structure for IEEE 802.16m SDD based on Contribution C802.16m-08/725</b>	
Date Submitted	<b>2008-07-16</b>	
Source(s)	Xiangying Yang Qinghua Li Yuan Zhu Hujun Yin Sassan Ahmadi	<a href="mailto:xiangying.yang@intel.com">xiangying.yang@intel.com</a> <a href="mailto:qinghua.li@intel.com">qinghua.li@intel.com</a> <a href="mailto:yuan.zhu@intel.com">yuan.zhu@intel.com</a> <a href="mailto:hujun.yin@intel.com">hujun.yin@intel.com</a> <a href="mailto:sassan.Ahmadi@intel.com">sassan.Ahmadi@intel.com</a>
	<b>Intel Corporation</b>	
	Jimin Liu Wu Zheng Xiaobing Leng Gang Shen Kaibin Zhang Shan Jin	<a href="mailto:Jimin.Liu@alcatel-sbell.com.cn">Jimin.Liu@alcatel-sbell.com.cn</a>  <a href="mailto:Gang.A.Shen@alcatel-sbell.com.cn">Gang.A.Shen@alcatel-sbell.com.cn</a> <a href="mailto:Kaibin.Zhang@alcatel-sbell.com.cn">Kaibin.Zhang@alcatel-sbell.com.cn</a>
	<b>Alcatel Shanghai Bell</b>	
	Haihong Zheng Yousuf Saifullah Shashikant Maheshwari Xiaoyi Wang	<a href="mailto:haihong.zheng@nsn.com">haihong.zheng@nsn.com</a>  <a href="mailto:xiaoyi.wang@nsn.com">xiaoyi.wang@nsn.com</a>
	<b>Nokia Siemens Networks</b>	
	Andrea Bacioccola	<a href="mailto:andrea.bacioccola@nokia.com">andrea.bacioccola@nokia.com</a>
	<b>Nokia</b>	
	Yih-Shen Chen I-Kang Fu	<a href="mailto:yihshen.chen@mediatek.com">yihshen.chen@mediatek.com</a> <a href="mailto:ik.fu@mediatek.com">ik.fu@mediatek.com</a>
	<b>Mediatek</b>	
	Hwasun Yoo Jaehyuk Jang Sangheon Kim	<a href="mailto:hwasun.yoo@samsung.com">hwasun.yoo@samsung.com</a> <a href="mailto:jack.jang@samsung.com">jack.jang@samsung.com</a> <a href="mailto:sangheon.kim@samsung.com">sangheon.kim@samsung.com</a>
	<b>Samsung</b>	

Re: UL Control Rapporteur Group Discussions

---

Abstract This contribution provides the requirements on ranging sequences.

---

Purpose For review and discussion in the Project 802.16m UL Control Rapporteur Group

---

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 on BW-REQ Channel for Baseline Content of Uplink Control Structure for IEEE 802.16m SDD based on Contribution C802.16m-08/725**

Xiangying Yang, Qinghua Li, Yuan Zhu, Hujun Yin, Sassan Ahmadi  
**Intel**

Jimin Liu, Wu Zheng, Xiaobing Leng, Gang Shen, Kaibin Zhang, Shan Jin  
**Alcatel Shanghai Bell**

Haihong Zheng, Yousuf Saifullah, Shashikant Maheshwari, Xiaoyi Wang  
**Nokia Siemens Networks**

Andrea Bacioccola  
**Nokia**

Yih-Shen Chen, I-Kang Fu  
**Mediatek**

Hwasun Yoo, Jaehyuk Jang, Sangheon Kim  
**Samsung**

## 1 Introduction

This contribution proposes text for section “11.x.2.5 Bandwidth Request Channel” in C802.16m-08/725 “Proposed Baseline Content on the Uplink Control Structure for the 802.16m SDD”,

## 2 Proposed text

-----Text start -----

### 11.x.2.5 Bandwidth request channel

The random access bandwidth request procedure is described in Figure 11.x.1. A 5-step regular procedure (step 1 to 5) or an optional quick access procedure (step 1,4 and 5) may be supported concurrently. Step 2 and 3 are used only in 5-step regular procedure. In step 1, MS sends a bandwidth request indicator that may indicate information such as MS addressing and/or request size (FFS) and/or UL transmit power report (FFS), and the BS may allocate UL grant based on certain policy. The 5-step regular procedure is used independently or as fallback mode for quick access procedure. The MS may piggyback additional BW-REQ information along with user data during UL transmission (step 5).

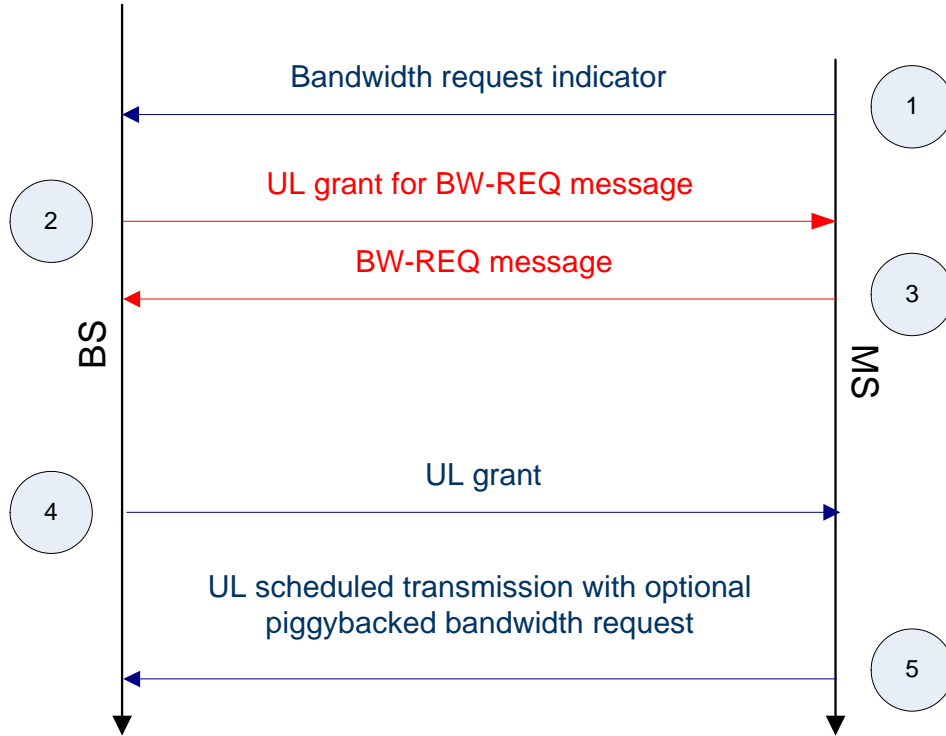


Figure 11.x.1 BW-REQ procedure

**11.x.2.5.1 Multiplexing with other control channels and data channels**

The BS can configure the allocation in terms of the number of resource units for bandwidth request channel.

-----Text end -----