

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Proposed SDD text changes to Broadcast Channel	
Date Submitted	2008-09-05	
Source(s)	Mihyun Lee, Rakesh Taori and Hokyu Choi Samsung Electronics	Voice: E-mail: mihyun.mac.lee@samsung.com
Re:	PHY: Text; in response to the TGM Call for Contributions and 802.16m-08/033 for Session 57 t.	
Abstract	This contribution suggests modification to Broadcast Channel(BCH)	
Purpose	Discussion and approval by TGM for the 802.16m SDD	
Notice	<i>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.</i>	
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 SDD Text Changes to Broadcast Channel

Mihyun Lee, Rakesh Taori and Hokyuu Choi
Samsung Electronics

Introduction

The information content of PBCH/SBCH depends on the transmission method (e.g. transmission time scale, diversity schemes, etc) of PBCH/SBCH. However, the transmission method of PBCH/SBCH is not specified yet.

We suppose that the information contents in PBCH/SBCH will be discussed and specified when the transmission method of PBCH/SBCH is specified (perhaps during Stage 3 text development?). Our proposal is that until the transmission method is specified, the constraints related to the information contents to SBCH/PBCH should be deleted.

Text Changes

[Modify the text in 11.7.2.2.1 as follows]

11.7.2.2.1 Primary Broadcast Channel (PBCH) and Secondary Broadcast Channel (SBCH)

The Primary Broadcast Channel (PBCH) and the Secondary Broadcast Channel (SBCH) carry essential system parameters and system configuration information. ~~The PBCH carries deployment wide common information. The SBCH carries sector specific information~~ The information in the PBCH and SBCH may be transmitted over one or more superframes.

[Modify the text in Table 3, page 64, 11.7.3 by choosing one of the options shown below]

Option 1:

Information		Channel	Location
Synchronization information		Synchronization Channel (SCH)	FFS
Essential system parameters and system configuration information	Deployment-wide common information	Primary Broadcast Channel (PBCH) <u>and Secondary Broadcast Channel (SBCH)</u>	Inside of SFH
	<u>Downlink sector-specific information</u>		
	<u>Uplink sector-specific information</u>	Secondary Broadcast Channel (SBCH)	Inside of SFH
	Downlink sector-specific information		
Uplink sector-specific information			
Extended system parameters and system configuration information		FFS	Outside of SFH
Control and signaling for DL notifications		FFS	FFS
Control and signaling for traffic		Unicast Service Control Channel	Outside of SFH

Option 2:

Information		Channel	Location
Synchronization information		Synchronization Channel (SCH)	FFS
Essential system parameters and system configuration information	Deployment-wide common information	Primary Broadcast Channel (PBCH) <u>and Secondary Broadcast Channel (SBCH)</u>	Inside of SFH
	Downlink sector-specific information		
	Uplink sector-specific information	Secondary Broadcast Channel (SBCH)	Inside of SFH
Extended system parameters and system configuration information		FFS	Outside of SFH
Control and signaling for DL notifications		FFS	FFS
Control and signaling for traffic		Unicast Service Control Channel	Outside of SFH