

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 SDD text changes to Broadcast Channel</b>	
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Re:	PHY: SDD Session 56 Cleanup; in response to the TGM Call for Contributions and 802.16m-08/033 for Session 57.	
Abstract	This contribution suggests modification to Broadcast Channel(BCH)	
Purpose	Discussion and approval by TGM for the 802.16m SDD	
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## Proposed SDD Text Changes to Broadcast Channel

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### 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 Change

*[Modify the text by choosing one of the options shown below]*

*Option 1:*

*[Modify the text in 11.7.2.2.1 as follows]*

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

The Broadcast Channel (BCH) carries essential system parameters and system configuration information. 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.

#### 11.7.2.2.2 Location of the BCH

The SFH includes PBCH and the SBCH, and is located in the first subframe within a superframe.

#### 11.7.2.2.3 The SFH includes PBCH and the SBCH, and is located in the first subframe within a superframe. Multiplexing of the PBCH and SBCH with other control channels and data channels

[Change the text in Table 3, page 64, 11.7.3]

Information		Channel	Location
Synchronization information		Synchronization Channel (SCH)	FFS
Essential system parameters and system configuration information	<del>Deployment wide common information</del>	<del>Primary Broadcast Channel (PBCH)</del>	Inside of SFH
	<del>Downlink sector specific information</del>	<del>Secondary Broadcast Channel (SBCH)</del>	Inside of SFH
	<del>Uplink sector specific information</del>		
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

[Change the text in 11.7.2.2]

Replace PBCH/SBCH with BCH

Option 2:

[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 is transmitted every superframe whereas the information in and SBCH may be transmitted over one or more superframes. The information contents of PBCH and SBCH is FFS

**11.7.2.2.2 Location of the BCH**

The SFH includes PBCH and the SBCH, and is located in the first subframe within a superframe.

**11.7.2.2.3 ~~The SFH includes PBCH and the SBCH, and is located in the first subframe within a superframe.~~ Multiplexing of the PBCH and SBCH with other control channels and data channels**

[Change the text in Table 3, page 64, 11.7.3]

Information		Channel	Location
Synchronization information		Synchronization Channel (SCH)	FFS
Essential system parameters and system configuration information	<del>Deployment-wide common information</del>	Primary Broadcast Channel (PBCH) <u>and Secondary Broadcast Channel (SBCH)</u>	Inside of SFH
	<del>Downlink sector-specific information</del>	<del>Secondary Broadcast Channel (SBCH)</del>	<del>Inside of SFH</del>
	<del>Uplink sector-specific information</del>		
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