Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Proposed SDD text changes to DL control information classification**
Date Submitted	**2008-07-07**
Source(s)	Mo-Han Fong, Sophie Vrzic, Robert Novak, Dongsheng Yu, Jun Yuan, Hosein Nikopourdeilami Nortel Networks Mihyun lee, Rakesh Taori and Hokyu Choi Samsung Electronics	Voice: E-mail: mhfong@nortel.com mihyun.mac.lee@samsung.com *<http://standards.ieee.org/faqs/affiliationFAQ.html>
Re:	IEEE 802.16m-08/024: Call for Contributions on Project 802.16m System Description Document (SDD), Target topic: "SDD Text".
Abstract	This contribution suggests modification to the description of DL control information classification.
Purpose	Discussion and approval by TGm for the 802.16m SDD
Notice	
Release	
Patent Policy	

Proposed SDD Text Changes to DL Control Information Classification

Mo-Han Fong, Sophie Vrzic, Robert Novak, Dongsheng Yu,
Jun Yuan, Hosein Nikopourdeilami
Nortel Networks

Mihyun lee, Rakesh Taori and Hokyu Choi
Samsung Electronics

Introduction

The current text in 11.6.1.2.1 and 11.6.1.2.2 are quite specific and constraint the information grouping into deployment wide and sector-specific. We propose some more general text to tie to actual nature of physical transmission, i.e. the frequency of transmission of different types of information in the BCH.

Text Changes

[Modify the text in 11.6.1.2.1, 11.6.1.2.2, 11.6.1.2.3 and 11.6.2.2.1 as follows]

11.6.1.2.1 ~~Deployment-wide common~~*Infrequently changing* information

~~Deployment-wide common information and parameters such as~~ This includes information to enable MS to demodulate the DL signal. Examples of such information include downlink system bandwidth, cyclic prefix and TDD downlink/uplink ratio. This information can be broadcast every N superframes or over N superframes.

11.6.1.2.2 ~~Downlink sector-specific~~*Frequently changing* information

~~Downlink sector-specific essential information and parameters~~ This includes information to enable MS to further receive downlink extended broadcast information, control signaling and data. Examples of such information include antenna configuration, DL resource allocation configuration, pilot configuration. This also includes information that is needed for the MS to perform access on the uplink. Examples include UL resource allocation configuration, system configuration for ranging, UL bandwidth, UL power control parameters. This information can change every superframe and be broadcast every superframe.

~~11.6.1.2.3 Uplink sector-specific information~~

~~Uplink sector-specific essential information and parameters that are needed for the MS to perform access on the uplink. Examples include UL resource allocation configuration, system configuration for initial ranging, UL bandwidth, UL power control parameters.~~

11.6.2.2.1 *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~~infrequently changing information. The SBCH carries ~~sector specific~~frequently changing information ~~The information in the PBCH and SBCH may be transmitted over one or more superframes.~~ The SBCH contains indicators that provide information about the status and presence of extended/additional broadcast information.

[Modify the text in Table 3, page 45 as follows]

Information		Channel	Location
Synchronization information		Synchronization Channel (SCH)	FFS
Essential system parameters and system configuration information	~~Deployment-wide common information~~Infrequently changing information	Primary Broadcast Channel (PBCH)	Inside of SFH
	~~Downlink sector-specific information~~Frequently changing information ~~Uplink sector-specific information~~	Secondary Broadcast Channel (SBCH)	Inside of SFH
Extended system parameters and system configuration information		FFS	FFS
Control and signaling for DL notifications		FFS	FFS
Control and signaling for traffic		FFS	Outside of SFH