Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Proposal for Adding Bs Ofdm Related Object Attributes Definitions**
Date Submitted	**2006-5-03**
Source(s)	Zou Lan Huawei Technologies. No.98,Lane91, Eshan Road, Pudong , Shanghai, China Pudong Lujiazui Software Park Voice: +86-21-68644808-24657 Fax: +86-21-50898375 Mailto: zlan@huawei.com
Re:	Contribution to IEEE 802.16i
Abstract	This contribution proposed to add BsOfdmUlChannel/BsOfdmDlChannel/BsOfdmUcdBurstProfile/BsOfdmDcdBurstProfile information object attributes.
Purpose	Adoption
Notice	
Release	
Patent Policy and Procedures	

Proposal for Adding Bs Ofdm Related Object Attributes Definitions

Huawei Technologies.

Introduction

This contribution is to add BsOfdmUlChannel/BsOfdmDlChannel/BsOfdmUcdBurstProfile/ BsOfdmDcdBurstProfile information models attributes.

Proposed Text

15.1.2.3.x IOC BsOfdmUlChannel
15.1.2.3.x.1 Definition
This IOC represents a BsOfdmUlChannel object. It is derived from WmanManagedFunction.
15.1.2.3.x.2 Attributes

Attributes of `BsOfdmUlChannel`

Attribute name	Defined in	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
objectClass	Top	+inherited	Minherited	Minherited	--inherited
objectInstance	Top	+inherited	Minherited	Minherited	--inherited
userLabel	WmanManagedFunction	+inherited	Minherited	Minherited	Minherited
BsOfdmUpLinkChannelId	-	+	M	M	M
BsOfdmCtBasedResvTimeout	-	+	M	M	M
BsOfdmBwReqOppSize	-	+	M	M	M
BsOfdmRangReqOppSize	-	+	M	M	M
BsOfdmUplinkCenterFreq	-	+	M	M	M
BsOfdmNumSubChReqRegionFull	-	+	M	M	M
BsOfdmNumSymbolsReqRegionFull	-	+	M	M	M
BsOfdmSubChFocusCtCode	-	+	M	M	M

15.1.2.3.x IOC BsOfdmDlChannel
15.1.2.3.x.1 Definition
This IOC represents a BsOfdmDlChannel object. It is derived from WmanManagedFunction.
15.1.2.3.x.2 Attributes

Attributes of `BsOfdmDlChannel`

Attribute name	Defined in	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
objectClass	Top	+inherited	Minherited	Minherited	--inherited
objectInstance	Top	+inherited	Minherited	Minherited	--inherited
userLabel	WmanManagedFunction	+inherited	Minherited	Minherited	Minherited
BsOfdmDownLinkChannelId	-	+	M	M	M
BsOfdmBsEIRP	-	+	M	M	M
BsOfdmChannelNumber	-	+	M	M	M
BsOfdmTTG	-	+	M	M	M
BsOfdmRTG	-	+	M	M	M
BsOfdmInitRngMaxRSS	-	+	M	M	M
BsOfdmDownlinkCenterFreq	-	+	M	M	M
BsOfdmBsId	-	+	M	M	M

BsOfdmMacVersion	-	+	M	M	M
BsOfdmFrameDurationCode	-	+	M	M	M

15.1.2.3.x IOC BsOfdmUcdBurstProfile_F

15.1.2.3.x.1 Definition

This IOC represents a BsOfdmUcdBurstProfile_F object. It is derived from WmanManagedFunction.

15.1.2.3.x.2 Attributes

Attributes of BsOfdmUcdBurstProfile_F

Attribute name	Defined in	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
objectClass	Top	+inherited	Minherited	Minherited	--inherited
objectInstance	Top	+inherited	Minherited	Minherited	--inherited
userLabel	WmanManagedFunction	+inherited	Minherited	Minherited	Minherited
BsOfdmUcdBurstProfileId	-	+	M	M	M
BsOfdmUiucIndex	-	+	M	-	-
BsOfdmUcdFecCodeType	-	+	M	M	M
BsOfdmFocusCtPowerBoost	-	+	M	M	M
BsOfdmUcdTcsEnable	-	+	M	M	M

15.1.2.3.x IOC BsOfdmDcdBurstProfile_F

15.1.2.3.x.1 Definition

This IOC represents a BsOfdmDcdBurstProfile_F object. It is derived from WmanManagedFunction.

15.1.2.3.x.2 Attributes

Attributes of BsOfdmDcdBurstProfile_F

Attribute name	Defined in	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
objectClass	Top	+inherited	Minherited	Minherited	--inherited
objectInstance	Top	+inherited	Minherited	Minherited	--inherited
userLabel	WmanManagedFunction	+inherited	Minherited	Minherited	Minherited
BsOfdmDcdBurstProfileId	-	+	M	M	-
BsOfdmDiucIndex	-	+	M	-	-
BsOfdmDownlinkFrequency	-	+	M	M	M
BsOfdmDcdFecCodeType	-	+	M	M	M
BsOfdmDiucMandatoryExitThresh	-	+	M	M	M
BsOfdmDiucMinEntryThresh	-	+	M	M	M
BsOfdmTcsEnable	-	+	M	M	M

Appending following description into section 15.1.2.6.1 Definition and legal values:

Attribute Name	Definition	Legal Values
BsOfdmUpLinkChannelId	It contains 'name+value' that is the RDN, when naming an instance, of this object class containing this attribute. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
BsOfdmDownLinkChannelId		
BsOfdmUcdBurstProfileId		
BsOfdmDcdBurstProfileId		
BsOfdmCtBasedResvTimeout	The number of UL-MAPs to receive before contention-based reservation is attempted again for the same connection.	
BsOfdmBwReqOppSize	Size (in units of PS) of PHY payload that SS may use to format and transmit a bandwidth request message in a contention request opportunity. The value includes all PHY overhead as well as allowance for the MAC data the message may hold.	

BsOfdmRangReqOppSize	Size (in units of PS) of PHY payload that SS may use to format and transmit a RNG-REQ message in a contention request opportunity. The value includes all PHY overhead as well as allowance for the MAC data the message may hold and the maxiumum SS/BS roundtrip propagation delay.	
BsOfdmUplinkCenterFreq	Uplink center frequency (kHz)	
BsOfdmNumSubChReqRegionFull	Number of subchannels used by each transmit opportunity when REQ Region-Full is allocated in subchannelization region.	oneSubchannel(0), twoSubchannels(1), fourSubchannels(2), eightSubchannels(3), sixteenSubchannels(4)
BsOfdmNumSymbolsReqRegionFull	Number of OFDM symbols used by each transmit opportunity when REQ Region-Full is allocated in subchannelization region.	
BsOfdmSubChFocusCtCode	Number of contention codes (CSE) that shall only be used to request a subchannelized allocation.	Default value 0. Allowed values 0-8.
BsOfdmBsEIRP	The EIRP is the equivalent isotropic radiated power of the base station, which is computed for a simple single-antenna transmitter.	
BsOfdmChannelNumber	Downlink channel number as defined in 8.5. Used for license-exempt operation only.	
BsOfdmTTG	Transmit / Receive Transition Gap.	
BsOfdmRTG	Receive / Transmit Transition Gap.	
BsOfdmInitRngMaxRSS	Initial Ranging Max. Received Signal Strength at BS Signed in units of 1 dBm.	
BsOfdmDownlinkCenterFreq	Downlink center frequency (kHz).	
BsOfdmBsId	Base station ID.	
BsOfdmMacVersion	This parameter specifies the version of 802.16 to which the message originator conforms.	
BsOfdmFrameDurationCode	The duration of the frame. The frame duration code values are specified in Table 230.	
BsOfdmUiucIndex	The Uplink Interval Usage Code indicates the uplink burst profile in the UCD message, and is used along with ifIndex to identify an entry in the wmanIfBsOfdmUcdBurstProfileTable.	
BsOfdmUcdFecCodeType	Uplink FEC code type and modulation type	
BsOfdmFocusCtPowerBoost	The power boost in dB of focused contention carriers	
BsOfdmUcdTcsEnable	This parameter determines the transmission convergence sublayer, as described in 8.1.4.3, can be enabled on a per-burst basis for both uplink and downlink. Through DIUC/UIUC messages.	tcsDisabled(0), tcsEnabled(1)
BsOfdmDiucIndex	The Downlink Interval Usage Code indicates the downlink burst profile in the DCD message, and is used along with ifIndex to identify an entry in the wmanIfBsOfdmDcdBurstProfileTable.	
BsOfdmDownlinkFrequency	Downlink Frequency (kHz).	
BsOfdmDcdFecCodeType	Downlink FEC code type and modulation type	

BsOfdmDiucMandatoryExitThresh	DIUC mandatory exit threshold: 0 - 63.75 dB CINR at or below where this DIUC can no longer be used and where this change to a more robust DIUC is required in 0.25 dB units.	
BsOfdmDiucMinEntryThresh	DIUC minimum entry threshold: 0 - 63.75 dB The minimum CINR required to start using this DIUC when changing from a more robust DIUC is required, in 0.25 dB units.	
BsOfdmTcsEnable	Indicates whether Transmission Convergence Sublayer is enabled or disabled.	tcsDisabled(0), tcsEnabled(1)