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Title	<b>Proposal for Adding Bs Ofdm Related Object Attributes Definitions</b>	
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Re:	Contribution to IEEE 802.16i	
Abstract	This contribution proposed to add BsOfdmUlChannel/BsOfdmDlChannel/BsOfdmUcdBurstProfile/BsOfdmDcdBurstProfile information object attributes.	
Purpose	Adoption	
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# Proposal for Adding Bs Ofdm Related Object Attributes Definitions

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## 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	+ <sub>inherited</sub>	M <sub>inherited</sub>	M <sub>inherited</sub>	-- <sub>inherited</sub>
objectInstance	Top	+ <sub>inherited</sub>	M <sub>inherited</sub>	M <sub>inherited</sub>	-- <sub>inherited</sub>
userLabel	WmanManagedFunction	+ <sub>inherited</sub>	M <sub>inherited</sub>	M <sub>inherited</sub>	M <sub>inherited</sub>
BsOfdmUpLinkChannelId	-	+	M	M	M
BsOfdmCtBasedResvTimeout	-	+	O	M	M
BsOfdmBwReqOppSize	-	+	O	M	M
BsOfdmRangReqOppSize	-	+	O	M	M
BsOfdmUplinkCenterFreq	-	+	O	M	M
BsOfdmNumSubChReqRegionFull	-	+	O	M	M
BsOfdmNumSymbolsReqRegionFull	-	+	O	M	M
BsOfdmSubChFocusCtCode	-	+	O	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	+ <sub>inherited</sub>	M <sub>inherited</sub>	M <sub>inherited</sub>	-- <sub>inherited</sub>
objectInstance	Top	+ <sub>inherited</sub>	M <sub>inherited</sub>	M <sub>inherited</sub>	-- <sub>inherited</sub>
userLabel	WmanManagedFunction	+ <sub>inherited</sub>	M <sub>inherited</sub>	M <sub>inherited</sub>	M <sub>inherited</sub>
BsOfdmDownLinkChannelId	-	+	M	M	M
BsOfdmBsEIRP	-	+	O	M	M
BsOfdmChannelNumber	-	+	O	M	M
BsOfdmTTG	-	+	O	M	M
BsOfdmRTG	-	+	O	M	M
BsOfdmInitRngMaxRSS	-	+	O	M	M
BsOfdmDownlinkCenterFreq	-	+	O	M	M
BsOfdmBsId	-	+	O	M	M

BsOfdmMacVersion	-	+	O	M	M
BsOfdmFrameDurationCode	-	+	O	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	+ <sub>inherited</sub>	M <sup>inherited</sup>	M <sup>inherited</sup>	-- <sub>inherited</sub>
objectInstance	Top	+ <sub>inherited</sub>	M <sup>inherited</sup>	M <sup>inherited</sup>	-- <sub>inherited</sub>
userLabel	WmanManagedFunction	+ <sub>inherited</sub>	M <sup>inherited</sup>	M <sup>inherited</sup>	M <sup>inherited</sup>
BsOfdmUcdBurstProfileId	-	+	M	M	M
BsOfdmUiucIndex	-	+	O	-	-
BsOfdmUcdFecCodeType	-	+	O	M	M
BsOfdmFocusCtPowerBoost	-	+	O	M	M
BsOfdmUcdTcsEnable	-	+	O	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	+ <sub>inherited</sub>	M <sup>inherited</sup>	M <sup>inherited</sup>	-- <sub>inherited</sub>
objectInstance	Top	+ <sub>inherited</sub>	M <sup>inherited</sup>	M <sup>inherited</sup>	-- <sub>inherited</sub>
userLabel	WmanManagedFunction	+ <sub>inherited</sub>	M <sup>inherited</sup>	M <sup>inherited</sup>	M <sup>inherited</sup>
BsOfdmDcdBurstProfileId	-	+	M	M	-
BsOfdmDiucIndex	-	+	O	-	-
BsOfdmDownlinkFrequency	-	+	O	M	M
BsOfdmDcdFecCodeType	-	+	O	M	M
BsOfdmDiucMandatoryExitThresh	-	+	O	M	M
BsOfdmDiucMinEntryThresh	-	+	O	M	M
BsOfdmTcsEnable	-	+	O	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 maximum 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	

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<code>BsOfdmDiucMandatoryExitThresh</code>	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.	
<code>BsOfdmDiucMinEntryThresh</code>	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.	
<code>BsOfdmTcsEnable</code>	Indicates whether Transmission Convergence Sublayer is enabled or disabled.	<code>tcsDisabled(0),</code> <code>tcsEnabled(1)</code>