Project	**IEEE 802.16e Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Editorial change in OFDMA parameter sets for SBC-REQ/RSP message**
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Re:	IEEE Std 802.16-2004/Cor2/D2
Abstract	This document contains editorial change in OFDMA parameter sets for SBC-REQ/RSP message.
Purpose	Adoption of proposed changes into Std. 802.16-2004/Cor2/D1
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Editorial change in OFDMA parameter sets for SBC-REQ/RSP message

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Background

There are some editorial errors in OFDMA parameter sets for SBC-REQ/RSP message. For example, some parameter sets have TLV encodings which doesn't exist any more. Therefore, we have to fix the errors in the parameter sets.

Note : C802.16maint-07/028r1(See Comment #144L) is merged into this contribution(See Comment #162LL).

Proposed Changes

[Modify the title of the section 11.8.6 on Page 406 as follows]

11.8.6 ~~Extension~~ Extended subheader capability

Change the text fragment as indicated:

Specifies ~~extension~~ extended subheader capability supports:

[Modify the section 11.7.20 on Page 398 as follows]

11.8.3.7.20 OFDMA parameters sets

This field indicates different parameter sets supported by a WirelessMAN-OFDMA PHY MS. This field is not used for other PHY specifications. If necessary, MS and BS may send additional TLVs to override functions and values defined in the parameter sets of this TLV.

Type	Length (bytes)	Value	Scope
204	1	Bit#0: support OFDMA PHY parameter set A Bit#1: support OFDMA PHY parameter set B Bit#2-#4: HARQ parameters set 0b000: HARQ set 1 0b001: HARQ set 2 0b010: HARQ set 3 0b011: HARQ set 4 0b100: HARQ set 5 0b101-0b111: reserved Bit#5: support OFDMA MAC parameters set A Bit#6: support OFDMA MAC parameters set B Bit#7: reserved Note: Bit#0 and #1 shall not be set to 1 together. Bit #5 and #6 shall not be set to 1 together.	~~SCB~~SBC-REQ SBC-RSP

[Modify the table "OFDMA PHY parameter set B" on Page 400 as follows]

Sets	Items	Sub-items	References

OFDMA PHY parameter set B	Subscriber transition gap	SSTTG = 50 μsec	11.8.3.1
		SSRTG = 50 μsec	
	OFDMA SS demodulator	64 QAM	11.8.3.7.2
		CTC	
		STC	
		HARQ chase	
		Dedicated pilot	
	OFDMA SS modulator	CTC	11.8.3.7.3
		HARQ chase	
	OFDMA SS permutation support	AMC 2 X 3 support	11.8.3.7.4
	~~OFDMA SS MIMO uplink support~~	~~Single-antenna Collaborative SM~~	~~11.8.3.7.6~~
	OFDMA SS CINR measurement capability	Physical CINR measurement from the preamble	11.8.3.7.9
		Physical CINR measurement for a permutation zone from pilot subcarrers	
		Effective CINR measurement for a permutation zone from pilot subcarriers	
	OFDMA SS uplink power control support	Uplink open loop power control support	11.8.3.7.11
	OFDMA MAP capability	Extended HARQ IE capability	11.8.3.7.12
		Sub MAP capability for first zone	
	Uplink control channel support	Enhanced FAST_FEEDBACK	11.8.3.7.13
		UL ACK	
	OFDMA MS CSIT capability	CSIT compatibility type A	11.8.3.7.14
		Sounding response time capability = next frame	
		Max number of simultaneous sounding instructions = 2	
		SS does not support P values of 9 and 18 when supporting CSIT type A = 0 (SS supports P values of 9 and 18)	
	OFDMA SS demodulator for MIMO support	2-antenna STC matrix A	11.8.3.7.5
		2-antenna STC matrix B vertical coding	
	OFDMA SS modulator for MIMO support	~~Capable of single antenna~~ Capable of collaborative SM with one antenna	11.8.3.7.16
		Capable of disabling UL subchannel rotation	

[Modify the table "OFDMA MAC parameter set A" on Page 403 as follows]

Sets	Items	Sub-items	References

OFDMA MAC parameter set A	Capabilities for construction and transmission of MAC PDUs	Ability to receive requests piggybacked with data	11.8.2
		No ability to use 3-bit FSN values used when forming MAC PDUs on non-ARQ connections	
	PKM Version Support	PKM version 2	11.8.4.1
	Authorization policy support	EAP-based authorization at the initial network entry	11.8.4.2
		EAP-based authorization at re-entry	
	MAC (Message Authentication Code) Mode	CMAC	11.8.4.3
	PN window size	PN Window Size in PNs = 128	11.8.4.4
	~~Power save class types capability~~	~~Power save class type I supported~~	~~11.8.5~~
	~~Extension~~Extended subheader capability	No support of extended subheader format	11.8.6
	HO Trigger metric support	BS CINR mean = Yes	11.8.7
		BS RSSI mean = Yes	
		Relative delay = No	
		BS RTD = No	
	Association type support	No support of association	11.8.8

[Modify the table "OFDMA MAC parameter set B" on Page 403 as follows]

Sets	**Items**	**Sub-items**	**References**

OFDMA MAC parameter set B	Capabilities for construction and transmission of MAC PDUs	Ability to receive requests piggybacked with data	11.8.2
		No ability to use 3-bit FSN values used when forming MAC PDUs on non-ARQ connections	
	PKM Version Support	PKM version 2	11.8.4.1
	Authorization policy support	EAP-based authorization at the initial network entry	11.8.4.2
		EAP-based authorization at re-entry	
	MAC (Message Authentication Code) Mode	CMAC	11.8.4.3
	PN window size	PN Window Size in PNs = 128	11.8.4.4
	~~Power save class types capability~~	~~Power save class type I supported~~	~~11.8.5~~
	~~Extension~~ Extended subheader capability	Support of extended subheader format	11.8.6
	HO Trigger metric support	BS CINR mean = Yes	11.8.7
		BS RSSI mean = Yes	
		Relative delay = No	
		BS RTD = Yes	
	Association type support	No support of association	11.8.8

[Please perform the indicated changes to table on page 397 of P80216-Cor2_D2]

Type	*Length*	*Value*	*Scope*
177	~~1~~2	Bit #0: ~~Two transmit antennas~~ Capable of 2-antenna STC Matrix A Bit #1: ~~Capable of transmit diversity~~ Capable of 2-antenna STC Matrix B, Vertical coding Bit #2: ~~Capable of spatial multiplexing~~ Capable of 2-antenna STC Matrix B, Horizontal coding Bit #3: Capable of beamforming Bit #4: Capable of adaptive rate control Bit #5: Capable of single antenna transmission Bit #6: Capable of ~~two-antenna~~ collaborative SM with one antenna Bit #7: ~~*Reserved; shall be set to zero*~~ collaborative SM with two antennas Bit #8: Capable of disabling UL subchannel rotation Bit#9-15:Reserved	SBC-REQ (See 6.3.2.3.23) SBC-RSP (See 6.3.2.3.24)