Project	IEEE 802.16 Broadband Wireless Access Working Group < <u>http://ieee802.org/16</u> >		
Title	CINR Averaging Factor for Scanning		
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Re:	Corrigendum 2, Reply Comments for LB23a		
Abstract	A proposal is presented for CINR Averaging Factor for Handovers.		
Purpose	Review and approve.		
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CINR Averaging Factor for Handover Joe Schumacher, Rob Nikides Motorola

Introduction

The existing standard places an upper limit on the CINR averaging period of 255 milliseconds. This is clearly insufficient for a high mobility environment.

Text Changes

1. In table 358, add the dedicated default averaging factor for HO via TLV in DCD called "Default HO RSSI and CINR averaging parameter". This parameter uses as a default averaging weight for HO dedicated mean CINR and RSSI metrics. The default value for this parameter shall be $\frac{1}{128} \cdot \frac{(0x7)}{1/32} \cdot \frac{1}{32} \cdot \frac{(0x5)}{1/32}$ for Intra-FA CINR and RSSI, while the default parameter shall be $\frac{1}{16} \cdot \frac{(0x4)}{4} \cdot \frac{1}{4} \cdot \frac{(0x2)}{4}$ for Inter-FA CINR and RSSI.

Nomo	Tuno	Longth	Value
	Type	Length	Value
Default HO	<u>121</u>	2	Bit #0-3: Intra-FA HO Alpha averaging parameter for
RSSI and			physical CINR measurements as follows:
<u>CINR</u>			<u>0x0: 1</u>
averaging			<u>0x1: 1/2</u>
parameter			<u>0x2: 1/4</u>
			0x3: 1/8
			<u>0x4: 1/16</u>
			<u>0x5: 1/32</u>
			0x6: 1/64
			0x7: 1/128
			0x8: 1/256
			<u>0x9: 1/512</u>
			0x10-0x15: Reserved
			<u>Default value shall be 0x7-0x5</u>
			Bit #4-7: Intra-FA HO Alpha averaging parameter for
			physical RSSI measurements as follows:
			<u>0x0: 1</u>
			<u>0x1: 1/2</u>
			0x2: 1/4
			0x3: 1/8
			<u>0x4: 1/16</u>
			0x5: 1/32
			0x6: 1/64
			0x7: 1/128
			0x8: 1/256
			0x9: 1/512
			0x10-0x15: Reserved
			Default value shall be <u>0x70x5</u>

1		Bit #8-11: Inter-FA HO Alpha averaging parameter for
		physical CINR measurements as follows:
		0x0: 1
		0x1: 1/2
		0x2: 1/4
		0x3: 1/8
		<u>0x4: 1/16</u>
		0x5: 1/32
		<u>0x6: 1/64</u>
		0x7: 1/128
		<u>0x8: 1/256</u>
		0x9: 1/512
		0x10-0x15: Reserved
		Default value shall be 0x4-0x2
		Bit #12-15: Inter-FA HO Alpha averaging parameter
		for physical RSSI measurements as follows:
		0x0: 1
		0x1: 1/2
		0x2: 1/4
		0x3: 1/8
		0x4: 1/16
		0x5: 1/32
		<u>0x6: 1/64</u> 0x7: 1/128
		0x7: 1/128
		<u>0x8: 1/256</u>
		0x9: 1/512 0x10, 0x15: Decement
		0x10-0x15: Reserved
		<u>Default value shall be 0x40x2</u>