



Working Party 5D

LIAISON STATEMENT TO IEEE AND WIMAX FORUM

REQUEST FOR CLARIFICATION ON OFDMA-TDD-WMAN BS AND MS ACS VALUES

At its meeting held in Geneva, 28 January-1 February, WP 5D discussed the values of the Adjacent Channel Selectivity (ACS) for OFDMA-TDD-WMAN base stations (BS) and mobile stations (MS) given in Report ITU-R M.2116 and those calculated with the ACR defined in ITU-R Recommendation M.1457-7 based on Document 5D/70.

WP 5D has noted significant differences, given in the table below, between the ACS values given in Report ITU-R M.2116 and those derived from Recommendation ITU-R M.1457-7.

The calculated values were derived using the following formula:

$$ACS = \frac{P}{N} = SNR_{\min} + 3 \text{ dB} + \text{Adjacent} / \text{Alternate Channel Rejection}$$

	ACS in ITU-R Report M.2116		ACS calculated with ACR defined in ITU-R Rec. M.1457-7	
	Base station	Mobile station	Base station	Mobile station
ACS_1 (dB)	70	40	26.7 (16QAM-3/4)	26.7 (16QAM-3/4)
			23.9 (64QAM-2/3)	23.9 (64QAM-2/3)
ACS_2 (dB)	70	59	45.7 (16QAM-3/4)	45.7 (16QAM-3/4)
			42.9 (64QAM-2/3)	42.9 (64QAM-2/3)

WP 5D kindly requests assistance from the IEEE and the WiMAX Forum in helping to solve the differences between the ACS values given in Report ITU-R M.2116 and those derived from Recommendation ITU-R M.1457-7, noting that the next meeting of WP5D is scheduled for 24 June - 1 July 2008.

Status: For response

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