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Source: 3GPP TSG RAN WG1

To: 3GPP TSG RAN WG2

Title: Answer to LS on Default configurations

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RAN1 thanks RAN2 for their LS on Default configurations. During its 18th meeting RAN1 has discussed the requested physical layer parameters for 4 default configurations from RAN2's preliminary list indicated in the LS:

?? 13.6 kbps SRB
?? 12.2 kbps speech + 3.4 kbps SRB
?? 64kbps conv. CS- data + 3.4 kbps SRB
?? 57.6 kbps streaming CS- data + 3.4 kbps SRB

RAN1 has agreed on the physical layer parameters that RAN2 has been asking for as given in the table below.

RAN1 has discussed whether it is possible to provide values for the parameter dpcch-PowerOffset. It has been identified that optimal parameter setting varies on cell basis, taking into account pico/micro/macro, cell planning strategy, amount of power used on P-CPICH, cell load etc. Further, the range of the parameter is very large (-164 ... -6). If the parameter is set too many dB away, it can have negative impact on capacity or initialisation delay. Based on those considerations, RAN1 believes that the parameter value would differ significantly between different cells, which makes it not sensible to define one default value for the parameter dpcch-PowerOffset. Therefore, RAN1 suggests that the parameter dpcch-PowerOffset should be considered for inclusion in the HANDOVER TO UTRAN COMMAND message. However, RAN1 believes that it would be feasible to use a granularity and range requiring less bits for the parameter than currently used.

RAN1 has also discussed whether default parameters for power control step size and power control algorithm could be predefined to further reduce the signalling. If RAN2 would like to use default values for those parameters, the suggestion of RAN1 would be to use a power control step size of 1dB and power control algorithm 1 as the default values.

RAN1 will continue its discussion to also provide default values for the other RABs from RAN2's preliminary list aiming for finalisation latest at RAN1#19 and would therefore appreciate feedback from RAN2 when their list of default configurations has been finalised.

The following table provides an overview of the parameter values for the considered configurations.

Item	Parameter	13.6 kbps SRB	12.2 kbps speech + 3.4 kbps SRB	64kbps conv. CS-data + 3.4 kbps SRB	57.6 kbps streaming CS- data + 3.4 kbps SRB
Common for all TrCH	TFC0	(TF0)	(TF0,TF0,TF0,TF0)	(TF0,TF0)	(TF0,TF0)
	TFC1	(TF1)	(TF1,TF0,TF0,TF0)	(TF1,TF0)	(TF1,TF0)
	TFC2		(TF2,TF1,TF1,TF0)	(TF0,TF1)	(TF2,TF0)
	TFC3		(TF0,TF0,TF0,TF1)	(TF1,TF1)	(TF3,TF0)
	TFC4		(TF1,TF0,TF0,TF1)		(TF4,TF0)
	TFC5		(TF2,TF1,TF1,TF1)		(TF0,TF1)
	TFC6				(TF1,TF1)
	TFC7				(TF2,TF1)
	TFC8				(TF3,TF1)
	TFC9				(TF4,TF1)
	Reference TFC (same used for all TFCs)	1	5	3	9
	?c	11	11	8	8
	?d	15	15	15	15
TrCH	Rate matching attribute	160	(200,190,235,160)	(170,160)	(145,160)
	>>bler-QualityValue	$5x10^{-2}$	$7x10^{-3}$ (class A)	$2x10^{-3}$	$1x10^{-2}$
PhyCH	>>dpcch-PowerOffset	-	-	-	-
	>>pc-Preamble	0	0	0	0