Agenda Item	**:**	
Source	**:**	Samsung
Title	**:**	Proposed CR 055 to 25.215 for Measurement of RACH
Document for	**:**	Discussion and approval

1. Background

In the last meeting, a new measurement procedure of the RACH is added in 25.433 [1] and 25.302 [2]. However, there is no measure in 25.215. So, a new measure is needed in 25.215 for the consistency. This measure has the value of the RA tries that are acknowledged by the UTRAN.

2. Persistency value

The persistency value is used for the load control and/or UL interference reduction. In RACH case, the persistency value is given to one PRACH. And there is a persistency test in the MAC procedure for RACH. In this test, MAC generates a random value and compares this random value and persistency value. Since this persistency value is given to one PRACH, the measure will be measured for one PRACH.

3. Status of other WGs

In WG3, this measure and procedure are the TS 25.433. And in WG2, this measure is approved [2].

4. Proposal

This contribution proposes a new RACH measure for the consistency with WG2 and WG3.

5. Reference

[1] TS 25.433 ver 3.1.0, "UTRAN Iub Interface NBAP Signalling", 3GPP
[2] R2-000830, "Proposed CR053 to 25.302 on measurement of RACH and CPCH", Samsung

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.215	**CR**	**055**		Current Version:	**3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑   ↑ *CR number as allocated by MCC support team*

For submission to:	TSG - RAN #8	for approval	**X**	strategic		*(for SMG*
list expected approval meeting # here ↑		for information		non-strategic		*use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG   The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects:	(U)SIM		ME	**X**	UTRAN / Radio	**X**	Core Network	

(at least one should be marked with an X)

Source:	Samsung		**Date:**	10-APR-2000

Subject:	Proposed CR for Measurements of RACH in FDD

Work item:	

Category:	F	Correction		**Release:**	Phase 2	
	A	Corresponds to a correction in an earlier release	**X**		Release 96	
(only one category	B	Addition of feature			Release 97	
shall be marked	C	Functional modification of feature			Release 98	
with an X)	D	Editorial modification			Release 99	**X**
					Release 00	

Reason for change:	

Clauses affected:	5.2 of TS25.215

Other specs Affected:	Other 3G core specifications		→ List of CRs:	
	Other GSM core specifications		→ List of CRs:	
	MS test specifications		→ List of CRs:	
	BSS test specifications		→ List of CRs:	
	O&M specifications		→ List of CRs:	

Other comments:	

<---------- double-click here for help and instructions on how to create a C

5.2.10 Propagation delay

Definition	Propagation delay is defined as one-way propagation delay as measured during PRACH access: Propagation delay = $(T_{RX} - T_{TX} - 2560)/2$, where: T_{TX} = The time of AICH access slot (n-2-AICH transmission timing), where $0 \leq$(n-2-AICH Transmission Timing)≤ 14 and AICH_Transmission_Timing can have values 0 or 1. T_{RX} = The time of reception of the beginning (the first significant path) of the PRACH message from the UE at PRACH access slot n. Note: The definition of "first significant path" needs further elaboration.
Range/mapping	The Propagation delay is given with the resolution of 3 chips with the range [0, …, 765] chips. The Propagation delay shall be reported in the unit PROP_DELAY where: PROP_DELAY_000: 0 chip $\leq$ Propagation delay < 3 chip PROP_DELAY_001: 3 chip $\leq$ Propagation delay < 6 chip PROP_DELAY_002: 6 chip $\leq$ Propagation delay < 9 chip ... PROP_DELAY_252: 756 chip $\leq$ Propagation delay < 759 chip PROP_DELAY_253: 759 chip $\leq$ Propagation delay < 762 chip PROP_DELAY_254: 762 chip $\leq$ Propagation delay < 765 chip PROP_DELAY_255: 765 chip $\leq$ Propagation delay

5.2.11 Acknowledged PRACH preambles

Definition	The Acknowledged PRACH preambles measurement is defined as the total number of acknowledged PRACH preambles per access frame per PRACH. This is equivalent to the number of positive acquisition indicators transmitted per access frame per AICH.
Range/mapping	