TSG-RAN Working Group 2 (Radio layer 2 and Radio layer 3)   *TSGR2#2(99)167*
Stockholm 8th to 11th March 1999

Agenda Item :

Source : **NTT DoCoMo**

Title : **RRC Message Parameters**
   (For RRC Connection Request and RRC Connection Re-establishment Request)

Document for : **Decision**

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1. Abstract
This contribution shows the parameters for RRC protocol. This contribution is focused on RRC Connection Request and RRC Connection Re-establishment Request.

2. Categorization of RRC parameters
RRC parameters are classified into 4 categories; RAB parameters, Transport CH parameters, Physical CH parameters and UE parameters. Each parameters are used as follows.

Parameter Category	Usage
RAB parameters	Not used.
Transport CH parameters	Not used.
Physical CH parameters	Candidate Cells are reported from UE to RNC.
UE parameters	Routing Information is reported from UE to RNC.

Table 1   Usage of parameters

RRC Connection Request, RRC Connection Re-establishment Request can be the combination of 2 types of parameters; Physical CH parameters, UE parameters.

	RAB parameters	Transport CH parameters	Physical CH parameters	UE parameters
RRC Connection Request			M	M
RRC Connection Re-establishment Request			M	M

Table 2   Combination of types of parameters

3. Physical CH Parameters
Physical CH parameters are listed in Table 3.
(1) If the candidate cell is same cell as the cell UE makes an access, phase difference for the candidate cell is 0.

Parameter Name			RRC Connection Request	RRC Connection Re-establishment Request
Dedicated CH Info.	Cell List Reference ID		M	O
	Candidate Cell Information #0	BCH DL Scrambling Code# BCH Reception SIR Phase Difference	M	M
	:	:		
	Candidate Cell Information #k	BCH DL Scrambling Code# BCH Reception SIR Phase Difference		

Table 3 Physical CH Parameters

4. UE Parameters
UE parameters are listed in Table 4.
(1) It is FFS whether the Routing Information (SRNC ID, old S-RNTI) is mapped in MAC header or not.

Parameter Name			RRC Connection Request	RRC Connection Re-establishment Request
	Establishment cause		M	
	Routing Information (FFS whether MAC or not)	SRNC ID S-RNTI		M

Table 4 UE Parameters

5. References
[1] RAN TSG WG2 S2.31 V0.0.1, Description of the RRC protocol;