TSG-RAN meeting #7 Madrid 13th to 15th March 2000

Agenda Item:	8
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Source: Ericsson

Document for: Decision

Work Item Description

Title

RRM optimizations

1 3GPP Work Area

Х	Radio Access
	Core Network
	Services

2 Linked work items

(list of linked WIs)

3 Justification

Optimising the existing procedures will increase the efficiency of UTRAN and the quality of service to the end user.

4 Objective

This work item focuses on optimising the existing procedures (mainly on Iur and Iub) and functions related to:

1) Congestion handling of DCH

Currently a DRNC accepting a dedicated RL, in principle needs to reserve resources for the maximum bitrate which could possibly be required for the DCH's on this RL. This because the DRNC has a very limited view on the load statistics of the DCH's (source descriptor) and has no possibility to control the DL-rate of the DCH's in congestion situations.

2) <u>Procedure parallelism on Iub/Iur</u>

Currently almost no procedure parallelism is allowed in NBAP/RNSAP (dedicated) procedures. As a result, an RRM procedure used for handling problems in a fast changing radio environment, could have to wait for termination of a procedure e.g. introducing a new service on the RL.

In order to improve the capability of the UTRAN to respond to fast changes in the radio environment, the restrictions on parallelism between procedures coping with radio environment changes (e.g. RL_ADDITION/RL_DELETION) and other procedures (e.g. RL_RECONFIGURATION) should be decreased.

3) DPC Rate Reduction in soft handover

Currently R1 describes two DPC_modes in 25.214, however mode change signalling is not supported by R3.

By supporting DPC-mode change signalling in the UTRAN, the UTRAN should be better capable of combating power drifting in the DL.

4) Introduction of common measurements over Iur for neighbouring cell load measurements

It is proposed to study the usefullness of / possibilities for introducing common measurements on Iur regarding cell

Prepared by	No		
Xx/yy/zz Foo Bar	xx/0363-2/FCP 103 1959		Limited Internal Information
Approved ERA/T/BF Mikael Gudmundson	Date 1999-03-01	Rev PA1	SELECT & CUT FOOTER BEFORE SUBMITTING DOC TO 3GPP!

load information in neighbouring cells.

If the study indicates clear benefits of providing such load information to a neighbouring CRNC, e.g. a common measurement procedure as currently supported on Iub could be introduced in RNSAP.

5) <u>Exension of Radio Interface Parameters updating in the user plane</u> Currently the Iub/Iur DCH FP supports a fast update of the TPC Power Offset in the DL RL via user plane signalling.

It should be studied if more radio interface parameters would benefit from a similar handling. If such parameters are identified, the user plane should be extended for this purpose.

Note that this workitem might need to be extended if RRM related functionality currently listed as open issue in R99, is excluded from R99.

5	Service Aspects
	None
6	MMI-Aspects
	None
7	Charging Aspects
	None
8	Security Aspects
	None
9	Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		Х	Х		
No	Х			Х	Х
Don't know					

10

11

Expected Output and Time scale (to be updated at each plenary)

				New spe	cifi	cations		
Spec No. Title		Prime rsp. WG	2 nd ary rsp. WG(s)	Presented for information at plenary#		Approved at plenary#	Comments	
			Affec	ted existi	na s	pecificati	ons	
Spec No.	CR	Subject			Approved at plenary#		Comments	
25.420		lur general aspects and principles						
25.430		lub general aspeects and principles			les			
25.423		RNSAP						
25.433		NBAP						
25.427		lub/lur dedicat user plane	ed trans	port chanr	nel			
25.425		lur common tr	ansport	channel us	ser			
25.435		lub common ti plane	ransport	channel u	ser			

Gert-Jan van Lieshout, Ericsson

12 Work item leadership WG3 13 Supporting Companies

Ericsson, Nokia, Nortel, Motorola, Siemens.

14 Classification of the WI (if known)

Feature (go to 14a)
Building Block (go to 14b)
Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)