

Title: **Revision of WID "Radio access bearer support enhancement"**

Source: **Nokia**

Document for: **Approval**

Agenda Item: **9.2.3**

It is proposed to agree the revised Work Item description regarding radio access bearer support enhancement.

Work Item Description

Title

Radio Access Bearer support enhancement

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

3 Justification

The increasing interest in IP based services demands special optimisation of the means by which a radio access bearer can be provided by UTRAN.

4 Objective

This work item should have the scope of adding necessary functionality to the Uu, [Iur](#) and Iu interface in order to efficiently support RT traffic, e.g. VoIP. Examples of such functionality are:

- Radio Access Bearer multiplexing in PDCP
- Support of variable formats over Iu and unequal error protection over Uu
- Channel type switching for logical channels
 - Today it is only possible to switch all logical channels of one UE, not individual. For DSCH it would be much better to be able to switch single logical channels
- IP header removal as developed within GERAN
- [RFC3095 context relocation in SRNS relocation](#)

5 Service Aspects

The intention with the work item is to better and more efficient support IP based services.

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects	USIM	ME	AN	CN	Others
:					
Yes		X	X		
No	X			X	X

Don't know					
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10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for endorsement at plenary#	Approved at plenary#	Comments
					RAN#14	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
25.303		Interlayer Procedures in Connected Mode		RAN#14		Update connected mode procedures to include RFC3095 context relocation.
25.323		Packet Data Convergence Protocol (PDCP) Specification		RAN#14		Define the detailed content of the context information for RFC3095 to be transmitted between RNCs.
25.331		RRC Protocol Specification		RAN#14		Update UE capabilities to contain capability for "RFC3095 => RFC3095 context relocation". Update all messages involved in SRNS relocation to contain information whether the relocation is performed with or without context relocation. This is needed to ensure backward compatibility: If UE supports context relocation but RNCs are based on Rel4, there shall be a way to tell UE not to assume context relocation but to initialise RFC3095 instead.
25.413		UTRAN Iu Interface RANAP Signalling		RAN#14		Define transparent container to transfer RFC3095 context information over Iu/Iur.
23.060		General Packet Radio Service (GPRS): Service description; Stage 2		SA#14		Update stage 2 description of SRNS relocation.

11 Work item rapporteurs

TSG-RAN WG2: Ainkaran Krishnarajah (Ericsson)
TSG-RAN WG3: Martin Israelsson (Ericsson)

12 Work item leadership

TSG-RAN WG2

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

	Feature (go to 14a)
X	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)

- RAN Improvement

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

(one Work Item identified as a building block)