# TSG GERAN #1 (00)0441

## TSG GERAN #1 Seattle, WA, U.S.A 28-1, August/September 2000

Source:EricssonTitle:Work Item Description for GERAN user/control planeDocument for:Decision

## **Work Item Description**

## Title

Work Item Description for GERAN user/control plane

### 1 3GPP Work Area

Х	Radio Access	
	Core Network	
	Services	

### 2 Linked work items

- GERAN overall description
- GERAN header adaptation
- GERAN radio access bearer design
- GERAN RR
- lu rg
- Voice over GERAN PS and CS concept
- Narrowband speech realization
- GERAN security
- MS Conformance test for GERAN interface evolution
- BTS Conformance test for GERAN interface evolution

#### 3 Justification

The GERAN work item will provide a platform to provide the four UMTS bearer classes: conversational, streaming, interactive and background. This includes IP end to end voice and multimedia services and provides the possibility to connect the 200kHz radio access to a 3G core network.

#### 4 Objective

The GERAN work item will provide:

- IP Multimedia (real-time end-to-end IP)
- Alignment with UMTS/UTRAN architecture, bearer services and QoS handling
- Spectrum efficiency and performance improvements (multiplexing scenario 1-2 as described in the system concept document)
- Specification flexibility for future enhancements

### Proposed building blocks and work tasks:

Building Block	Work Task		
GERAN user / control plane	PDCP protocol design		
	Adoption of the UTRAN PDCP		
	Inclusion of header adaptation		
	RLC / MAC		
	Specification		
	Physical layer		
	Use of stealing bits		
	Fast Access		
	<ul> <li>Logical and physical channel realization (TCH, PDTCH, control channels)</li> </ul>		
	Fast power control		
	Receiver performance		

Services provided to UTRAN will be provided by GERAN.

7 MMI-Aspects

None

- 8 Charging Aspects None
- 9 Security Aspects The same or at least similar security will be provided as for UTRAN.

#### 10 Impacts

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

- 11 Expected Output and Time scale (to be updated at each plenary) The time plan for this work item is documented in 50.099 (GERAN project plan)
- 12 Work item raporteurs

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13 Work item leadership

TSG GERAN

- 14 Supporting Companies Alcatel, AT&T, Ericsson, Lucent, Nokia, Motorola, Nortel, Siemens
- 15 Classification of the WI (if known)

	Feature (go to 15a)
Х	Building Block (go to 15b)
	Work Task (go to 15c)

15a The WI is a Feature: List of building blocks under this feature

15b The WI is a Building Block: parent Feature

GERAN radio interface evolution

15c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)