

Source: Rapporteur
Title: WI re-org: Modified WI GP-00-0445: Narrowband speech realization

Document for: Decision

Work Item Description

Title

Narrowband speech realization

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

- lu rg interface
- GERAN user / control plane
- Voice over GERAN PS and CS concept
- GERAN MS conformance for alignment
- GERAN BTS conformance for alignment

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:

- Alignment with UMTS/UTRAN architecture, bearer services and QoS handling
- Spectrum efficiency and performance improvements
- Specification flexibility for future enhancements

5 Proposed features, building blocks and work tasks:

Building Block	Work Task
GERAN Narrowband speech realization	8PSK NB HR <ul style="list-style-type: none"> • Channel coding in 45.003 • Signalling for A interface • Signalling for lu • Link adaptation in 45.009 • Receiver performance in 45.005
	8PSK NB QR <ul style="list-style-type: none"> • Channel coding in 45.003 • Signalling for A interface • Signalling for lu • Link adaptation in 45.009 • Receiver performance in 45.005

6 Service Aspects
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		X	X		
No	X				
Don't know				X	

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 rapporteurs

Frank Mueller, Ericsson

13 Work item leadership

TSG GERAN

14 Supporting Companies

AWS, Ericsson, Nokia, Nortel, Siemens, Vodafone

15 Classification of the WI (if known)

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

15a The WI is a Feature:

15b The WI is a Building Block: Alignment of 3G functional split and lu

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