Source:	Ericsson
Title:	Proposed WI: Definition of channel coding, performance requirements and signaling support for 8PSK AMR HR
Document for:	Decision

Work Item Description

Title

Definition of channel coding, performance requirements and signaling support for 8PSK AMR HR

1   3GPP Work Area

X	Radio Access
	Core Network
	Services

2   Linked work items

Independent feature is 8PSK AMR HR.

3   Justification

This work item provides AMR narrow band speech services over 8PSK modulated half rate channels. By this realization it will be possible to provide all AMR modes over half rate channels, something which is not possible for GMSK.

4   Objective

To increase the spectrum efficiency by means of 8PSK

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		X	X		
No	X			X	X
Don't know					

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 information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
24.008		Bearer capability				
43.051		Stage 2 description				
44.018		Signalling at channel setup				
45.001	004	L1 general				Presented at GERAN #7
45.002	025	Channels and channel combinations				Presented at GERAN #7
45.003	005	Channel coding		GERAN #5		
45.005	007 r2	Performance requirements				Presented at GERAN #7
45.008	062	References to O-TCH/AHS				Presented at GERAN #7
45.009	003	Link adaptation and thresholds for O-TCH/AHS				Presented at GERAN #7
48.008		A interface changes				
48.058		A'' Signalling				

11 **Work item raporteurs**

David Bladsjö, Ericsson

12 **Work item leadership**

TSG GERAN

13 **Supporting Companies**

AWS, Ericsson, Nokia, Nortel, Siemens, Vodafone

14 **Classification of the WI (if known)**

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

14b   The WI is a Building block:

Feature	Building Block	Work task
8PSK AMR HR	Definition of channel coding, performance requirements and signaling support	Concept Changes to 44.018 Changes to 45.001 Changes to 45.002 Changes to 45.003 Changes to 45.005 Changes to 24.008 Changes to 48.058
	GERAN MS Conformance test for 8PSK HR	MS test
	GERAN BTS Conformance test for 8PSK HR	BTS test