

Source: Motorola
Title: DARP Performance Specifications
Document for: Discussion

1. Introduction

Several test scenarios have been agreed for DARP performance specification [1]. This contribution presents performance recommendations for inclusion in TS 45.005.

2. Performance Requirements

Table 1 shows suggested performance requirements based upon simulations for 20,000 speech frames. These performance figures include the effect of impairments and implementation margin and are provided in terms of C/I_1 at the 1% FER level. Suggested requirements for AHS 7.95 kbps and Residual BER are not yet available and will be included before GERAN #22.

Scenario	900 MHz			1800 MHz		
	Single	GERAN Config	GERAN Config	Single	GERAN Config	GERAN Config
	Co-channel	No TSC	With TSC	Co-channel	No TSC	With TSC
AFS 12.2 kbps	2.5	9.2	9.8	2.5	7.9	9.3
AFS 7.95 kbps	-1	5.8	6.5	-1.5	4.5	5.4
AFS 5.9 kbps	-2.5	4.1	5.1	-3.5	2.8	4.4
AFS 4.75 kbps	-3.5	3.2	4.5	-4	2.1	3.2
AHS 7.95 kbps	TBD	TBD	TBD	TBD	TBD	TBD
AHS 5.9 kbps	4	9.7	10.7	4	9.6	10.7
AHS 4.75 kbps	1.5	7.1	8.2	1.5	7.2	8.4

Table 1 Suggested C/I1 1% FER level for TU50 noFH

3. References

- [1] GP-041739, Rapporteur, "Outcome of SAIC/ARP offline session", 3GPP TSG GERAN#20, Bilbao, Spain, June 21-25, 2004