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Helsinki, Fin	land, 28 Feb –	3 Mar 2000	0				
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Source:	Nokia				<u>D</u> :	ate:	29-Feb-2000
Subject: Addition of comfort noise bit ordering							
3G Work item: AMR							
(only one category shall be marked	F Correction A Corresponds to a correction in a 2G specification B Addition of feature C Functional modification of feature D Editorial modification						
Reason for change:	The present version of TS 26.101 does not unambiguously define the bit ordering of comfort noise frames. This change excellicitly defines that ordering for Frame Type 8.						
Clauses affected: 4.2.3							
Other specs affected:	Other 3G core sp Other 2G core sp MS test specifica BSS test specific O&M specification	pecifications ations ations	-	→ List of (CRs: CRs: CRs:		
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4.2.3 AMR Core Frame with comfort noise bits

The AMR Core Frame content for the additional frame types with Type Indices 8-15 in Table 1a are described in this section. These mainly consist of the frames related to Source Controlled Rate Operation specified in [2].

The data content (comfort \underline{n} boise bits) of the additional frame types is carried in AMR Core Frame. The comfort noise bits are all mapped to Class A of AMR Core Frame and Classes B and C are not used. This is a notation convention only and the class division has no meaning for comfort noise bits.

The number of bits in each class (Class A, Class B, and Class C) for the AMR comfort noise bits (Frame Type Index 8) is shown in Table 3. The contents of SID_UPDATE and SID_FIRST are divided into three parts (SID Type Indicator, Mode Indication, and Comfort Noise Parameters) as defined in [2].

The comfort noise parameter bits produced by the AMR speech encoder are denoted as $\{s(1), s(2), ..., s(35)\}$. The notation s(i) follows that of [3]. These bits are numbered in the order they are produced by the AMR encoder without any reordering. These bits are followed by the SID Type Indicator bit (t1) and Mode Indication bits $(\{smi(0),smi(1),smi(2)\}$. Thus, the AMR comfort noise bits $\{d(0),d(1),...,d(38)\}$ are formed as defined by the pseudo code below.

for j = 0 to 34 d(j) := s(j+1); d(35) := t1;for j = 36 to 38 d(j) := smi(j-36);