Source: **TSG-SA WG4**

Title: **CR to TS 26.104**

Document for: **Approval**

Agenda Item: **7.4.3**

The following CRs were agreed at the TSG-SA WG4 meeting #13 and are presented to TSG SA #10 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Ver	WG	Meeting	S4 doc
26.104	001		R99	AMR Core Frame bit ordering (AMR speech Codec; Floating point C-Code)	F	3.0.0	S4	TSG-SA WG4#13	S4-000493
26.104	002		Rel-4	AMR Core Frame bit ordering (AMR speech Codec; Floating point C-Code)	A	3.0.0	S4	TSG-SA WG4#13	S4-000536

TSG-SA4 Meeting #13
Osaka, Japan, 23-27 October 2000

Document **S4-00-0493**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

<table>
<tr><td colspan="3"></td></tr>
</table>

CHANGE REQUEST				*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*		

26.104 CR **001**   Current Version: **3.0.0 (R99)**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑   *↑ CR number as allocated by MCC support team*

For submission to: **SA#10**   for approval **X**   strategic   *(for SMG*
List expected approval meeting # here   For information   non-strategic   *use only)*
↑

Form: CR cover sheet, version 2 for 3GPP and SMG   *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: (U)SIM ☐   ME **X**   UTRAN / Radio ☐   Core Network **X**
(at least one should be marked with an X)

Source:	TSG-SA WG4	**Date:**	11.12.2000

Subject: AMR Core Frame bit ordering (AMR speech Codec; Floating point C-Code)

Work item: Low bit rate codec for Multimedia Telephony

Category: F   Correction   **X**   **Release:**   Phase 2 ☐
         A   Corresponds to a correction in an earlier release   Release 96 ☐
(only one category   B   Addition of feature   Release 97 ☐
Shall be marked   C   Functional modification of feature   Release 98 ☐
With an X)   D   Editorial modification   Release 99 **X**
                                               Release 00 ☐

Reason for change: The speech encoder output bits are ordered according to their subjective importance. The bit order of the 4.75 kbit/s mode in the TS26.104 (AMR speech Codec; Floating point C-Code, v3.0.0) does not follow the order defined in Table B.1 of TS26.101 (AMR speech Codec; Frame Structure , v3.1.0).

This correction aligns the C-code to Table B.1 of TS26.101 (v3.1.0)

Clauses affected: C code file interf_rom.h in TS26.104

Other specs Affected:

Other 3G core specifications	☐ → List of CRs:	
Other GSM core specifications	☐ → List of CRs:	
MS test specifications	☐ → List of CRs:	
BSS test specifications	☐ → List of CRs:	
O&M specifications	☐ → List of CRs:	

Other comments:

1. How the code is changed

1.1 File interf_rom.h

1.1.1 Before the change (lines 91..102) (order_MR475)

```
3, 0x1,
```

```
6, 0x10,
6, 0x20,
6, 0x40,
6, 0x80,
5, 0x1,
5, 0x2,
2, 0x40,
2, 0x8,
2, 0x2,
7, 0x2,
7, 0x1,
```

1.1.2 After the change

```
3, 0x1,
6, 0x10,
6, 0x20,
6, 0x40,
6, 0x80,
5, 0x2,
5, 0x1,
2, 0x40,
2, 0x8,
2, 0x2,
7, 0x2,
7, 0x1,
```

<table>
<tr><td colspan="3"></td></tr>
</table>

CHANGE REQUEST		*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*	

26.104 CR **002**   Current Version: **3.0.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑   ↑ *CR number as allocated by MCC support team*

For submission to:	SA#10	for approval	X	strategic		*(for SMG*
List expected approval meeting # here ↑		For information		non-strategic		*use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG   The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects: (U)SIM ☐   ME **X**   UTRAN / Radio ☐   Core Network **X**
(at least one should be marked with an X)

Source:	TSG-SA WG4	**Date:**	11.12.2000

Subject:	AMR Core Frame bit ordering (AMR speech Codec; Floating point C-Code)

Work item:	Low bit rate codec for Multimedia Telephony

Category:	F	Correction	X	**Release:**	Phase 2	
	A	Corresponds to a correction in an earlier release			Release 96	
(only one category	B	Addition of feature			Release 97	
Shall be marked	C	Functional modification of feature			Release 98	
With an X)	D	Editorial modification			Release 99	
					Release 00	**X**

Reason for change:	The speech encoder output bits are ordered according to their subjective importance. The bit order of the 4.75 kbit/s mode in the TS26.104 (AMR speech Codec; Floating point C-Code, v3.0.0) does not follow the order defined in Table B.1 of TS26.101 (AMR speech Codec; Frame Structure , v3.1.0). This correction aligns the C-code to Table B.1 of TS26.101 (v3.1.0)

Clauses affected:	C code file interf_rom.h in TS26.104

Other specs Affected:	Other 3G core specifications		→ List of CRs:	
	Other GSM core specifications		→ List of CRs:	
	MS test specifications		→ List of CRs:	
	BSS test specifications		→ List of CRs:	
	O&M specifications		→ List of CRs:	

Other comments:	

1. How the code is changed

1.1 File `interf_rom.h`

1.1.1 Before the change (lines 91..102) (order_MR475)

```
3, 0x1,
6, 0x10,
```

```
6, 0x20,
6, 0x40,
6, 0x80,
5, 0x1,
5, 0x2,
2, 0x40,
2, 0x8,
2, 0x2,
7, 0x2,
7, 0x1,
```

1.1.2 After the change

```
3, 0x1,
6, 0x10,
6, 0x20,
6, 0x40,
6, 0x80,
5, 0x2,
5, 0x1,
2, 0x40,
2, 0x8,
2, 0x2,
7, 0x2,
7, 0x1,
```