

Source: TSG-SA WG4

Title: CR to TS 26.073 - Correction of the MMS_IO flag (Release 5)

Document for: Approval

Agenda Item: 7.4.3

The following CR, agreed at the TSG-SA WG4 meeting #27, is presented to TSG SA #21 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Vers	WG	Meeting	S4 doc
26.073	018		Rel-5	Correction of the MMS_IO flag	F	5.1.0	S4	TSG-SA WG4#27	S4-030485

CHANGE REQUEST

⌘ **26.073 CR 018** ⌘ rev **-** ⌘ Current version: **5.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction of the MMS_IO flag		
Source:	⌘ TSG SA WG4		
Work item code:	⌘ AMR	Date:	⌘ 22 September 2003
Category:	⌘ F	Release:	⌘ REL-5
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ The reference code of the AMR speech codec given in TS 26.073 does not compile when the option -DMMS_IO is enabled because the enum type TXFrameType is not properly defined in the file sp_enc.c. Furthermore, a warning is given in decoder.c because the prototype of the libc function strncpy does not match with the type of the arguments.
Summary of change:	⌘ - Change the location where the file sp_enc.h is included from sp_enc.c, - Explicitly cast the arguments in decoder.c.
Consequences if not approved:	⌘ The reference code of the AMR speech codec given in TS 26.073 does not compile when the option -DMMS_IO is enabled. Therefore, the developers can not test the reference AMR speech codec with the AMR MIME file storage format.

Clauses affected:	⌘ Source file "sp_enc.c" and "decoder.c"		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Changes to the c source-code:

Changes in file *sp_enc.c*

Before the change, lines 16 – 45:

```

/*
*****
*
*          MODULE INCLUDE FILE AND VERSION ID
*
*****
*/
#include "sp_enc.h"
const char sp_enc_id[] = "@(#) $Id $" sp_enc_h;

/*
*****
*
*          INCLUDE FILES
*
*****
*/
#include <stdlib.h>
#include <stdio.h>
#include "typedef.h"
#include "basic_op.h"
#include "cnst.h"
#include "count.h"
#include "set_zero.h"
#include "pre_proc.h"
#include "prm2bits.h"
#include "mode.h"
#include "cod_amr.h"

#ifdef MMS_IO
#include "frame.h"
#include "bitno.tab"
#endif

```

After the change, lines 16 – 45:

```

/*
*****
*
*          MODULE INCLUDE FILE AND VERSION ID
*
*****
*/
const char sp_enc_id[] = "@(#) $Id $" sp_enc_h;

/*
*****
*
*          INCLUDE FILES
*
*****
*/
#include <stdlib.h>
#include <stdio.h>
#include "typedef.h"
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#include "set_zero.h"
#include "pre_proc.h"
#include "prm2bits.h"
#include "mode.h"
#include "cod_amr.h"

#ifdef MMS_IO
#include "frame.h"
#include "bitno.tab"
#endif

```

```
#include "sp_enc.h"
```

Changes in file *decoder.c*

Before the change, lines 180 – 190:

```
#ifdef MMS_IO
/* read and verify magic number */
fread(magic, sizeof(Word8), strlen(AMR_MAGIC_NUMBER), file_serial);
if (strncmp(magic, AMR_MAGIC_NUMBER, strlen(AMR_MAGIC_NUMBER)))
{
    fprintf(stderr, "%s%s\n", "Invalid magic number: ", magic);
    fclose(file_serial);
    fclose(file_syn);
    return 1;
}
#endif
```

After the change, lines 180 – 190:

```
#ifdef MMS_IO
/* read and verify magic number */
fread(magic, sizeof(Word8), strlen(AMR_MAGIC_NUMBER), file_serial);
if (strncmp((const char *)magic, AMR_MAGIC_NUMBER, strlen(AMR_MAGIC_NUMBER)))
{
    fprintf(stderr, "%s%s\n", "Invalid magic number: ", magic);
    fclose(file_serial);
    fclose(file_syn);
    return 1;
}
#endif
```