Technical Specification Group Services and System Aspects
Meeting #25, Palm Springs, USA
13-16 September 2004

TSGS#23(04)0648

Source: TSG-SA WG4

Title: CR TS 26.111 on 3G-324M Improvements: addition of optional AMR-WB support (Release 6)

Document for: Approval

Agenda Item: 7.4.3

The following CR, agreed at the TSG-SA WG4 meeting #32, is presented to TSG SA #25 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Vers	WG	Meeting	S4 doc
26.111	011	1	Rel-6	3G-324M Improvements: addition of optional AMR-WB support	B	5.1.0	S4	TSG-SA WG4#32	S4-040568

3GPP TSG-SA4 Meeting #32
Prague, Czech Republic, 16-20 August 2004

Tdoc ⌘S4-040568

CR-Form-v7

CHANGE REQUEST

⌘ **26.111** **CR** **011** ⌘**rev** **1** ⌘ 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: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	3G-324M Improvements: Addition of optional AMR-WB support.
Source:	⌘	TSG SA WG4
Work item code:	⌘	3G-324MI
Date:	⌘	14/09/2004
Category:	⌘	**B**
Release:	⌘	Rel-6

Use one of the following categories:
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.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	The 3GPP circuit-switched mobile video telephony standard 3G-324M is now being deployed in several countries and is one of the major services distinguishing 3G networks from 2G. The interest for the 3G-324M service is high and will probably continue to be so in the near future. No major changes have been made to the 3G-324M specifications since 1999, although there now exist better alternatives for media encoding than originally specified and the service requirements have also become more clear.
Summary of change:	⌘	Addition of optional AMR-WB support.
Consequences if not approved:	⌘	Support for AMR-WB will either not be available in 3G-324M, making it diverge from other 3GPP services as e.g. 26.235, or there is a substatial risk that support will not be interoperable between implementations and other 3GPP services.

Clauses affected:	⌘	2, 3.2 and 6.7			
		Y	**N**		
Other specs affected:	⌘	**X**		Other core specifications	⌘ CR 26.111 010 rev 2, CR 26.911 014 rev 2
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

2 References

(cut text)

[20] 3GPP TS 26.171: "AMR Wideband Speech codec; General Description".

[21] ITU-T Recommendation G.722.2 Annex F (2002): "AMR-WB usage in H.245".

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3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AMR	Adaptive Multi-Rate
AMR-WB	AMR Wide-Band
RVLC	Reverse Variable Length Code
DP	Data Partitioning
RM	Resynchronization Marker
MCU	Multipoint Control Unit

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6.7 Audio channels

AMR is the mandatory speech codec. Support for G.723.1 [7] is not mandatory, but recommended. Support for AMR-WB [18] is also recommended. When AMR-WB is supported, signalling shall be according to G.722.2 Annex F [21]. ~~If~~When both the receiving and transmitting terminals support ~~AMR and G.723.1 [7]~~multiple codecs in common, the use of AMR and AMR-WB is preferred:

- If both the receiving and transmitting terminals support AMR and other codecs (e.g. G.723.1) but not AMR-WB, then AMR shall be used.
- If both the receiving and transmitting terminals support AMR and other codecs including AMR-WB, either AMR or AMR-WB shall be used.

Asymmetric configurations with one codec in one direction and another one in the other direction (e.g. AMR in one direction and AMR-WB in the other direction) are allowed, if supported by both terminals.

This applies to connections without an Multipoint Control Unit (MCU).

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