Source: **SA1**

Title: **CR to 22.146 on Alignment of MBMS use cases and bit rates (Rel-6)**

Document for: **Approval**

Agenda Item: **7.1.3**

Meet	Doc. No.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	Doc. SA1
SP-22	SP-030705	22.146	041	-	Rel-6	F	Alignment of MBMS use cases and bit rates	6.2.0	6.3.0	S1-031010

CR-Form-v7

CHANGE REQUEST

⌘ **22.146** **CR** **041** ⌘ **rev** **-** ⌘ Current version: **6.2.0** ⌘

*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 [X] Core Network [X]

Title:	⌘	Alignment of MBMS use cases and bit rates
Source:	⌘	SA1 (NTT DoCoMo)
Work item code:	⌘	MBMS
Date:	⌘	27/10/2003
Category:	⌘	**F**
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:	⌘	According to the WID within SP-030442 SA1 has specified requirements for MBMS User Services within TS 22.246. Although non-exhaustive, the study of MBMS User Services has resulted in a number of use cases for user services provided over the application independent MBMS transport service, including appropriate bit rates, to be described in detail within TS 22.246. The use cases detailed within TS 22.246 duplicates and goes beyond that provided within Annex A of TS 22.146 rendering this section irrelevant to the specification of MBMS. Hence, the text within Annex A of TS 22.146 should be removed and replaced with a reference to the specification for MBMS User Services.
Summary of change:	⌘	A reference to TS 22.246 is added and the text within Annex A is replaced with a direction for the reader to reference TS 22.246 (MBMS User Services) for information regarding the bit rates for services to be provided over MBMS.
Consequences if not approved:	⌘	Unnecessary duplication of information across TS 22.146 & TS 22.246. Confusion regarding the bit rates for user services to be provided over MBMS. Subsequent mis-specification within the Stages 2 & 3 for MBMS and MBMS User Services.

Clauses affected:	⌘	2, Annex A			
Other specs affected:	⌘	**Y**	**N**		
		☐	☐	Other core specifications	⌘
		☐	☐	Test specifications	
		☐	☐	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/specs/CR.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.

First Modified section

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*

[1] 3GPP TR 21.905: " Vocabulary for 3GPP Specifications ".

[2] RFC 1112: "Host extensions for IP multicasting", RFC 1920:" Internet official protocol standards", RFC 1458: "Requirements for multicast protocols", RFC 1301: "Multicast transport protocol"

[3] 3GPP TS 22.060: "General Packet Radio Service (GPRS); Service description; Stage 1".

[4] 3GPP TS 23.060: “General Packet Radio Service (GPRS); Service description; Stage 2".

[5] 3GPP TS 25.324: “Broadcast/Multicast Control BMC”

[6] 3GPP TS 23.041: “Technical Realization of Cell Broadcast Service (CBS)”

[x] 3GPP TS 22.246: "MBMS User Services".

3

Next Modified section

Annex A (informative): MBMS Bit Rates

Application bit rates for user services provided over MBMS are detailed within the stage 1 specification for "MBMS User Services" [x].

~~MBMS Bit Rates~~

~~MBMS shall support a variety of background and streaming class applications. A particular service may be available at different bit rates depending on the radio conditions of the access network.The following table contains a non-exhaustive list of some applications with typical bit rates that may be suitable for MBMS. (It is assumed that MBMS codecs will have similar capabilities to those required to support PSS.)~~

~~Application~~	~~Media type(s)~~	~~[1] Typical Bit rate~~
~~Traffic telematics~~	~~Text, audio, pictograms, video~~	~~8kb/s ~ 64kb/s~~
~~Weather~~	~~Text, video, pictograms~~	~~8kb/s ~ 64kb/s~~
~~Advertising~~	~~Text, video, pictograms~~	~~8kb/s ~64kb/s~~
~~News broadcast~~	~~Audio, video~~	~~8kb/s ~ 256kb/s~~
~~Music streaming, (Web radio)~~	~~Audio~~	~~8kb/s ~ 64kb/s~~
~~Video concert~~	~~Audio/Video~~	~~32kb/s ~ 256kb/s~~
~~Sports replay~~	~~Video~~	~~32kb/s ~ 256kb/s~~
~~File sharing~~	~~Binary data~~	~~8kb/s ~ 256kb/s~~

~~1. Actual bit rates are dependent on radio access technology and terminal capabilities.~~

End of changes