Source: **SA1**

Title: **CRs to 22.140 for MMS (Rel-6)**

Document for: **Approval**

Agenda Item: **7.1.3**

This document contains a revision of CR 22.140-41 which was first presented in document SP-040093.

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers. Current	Vers New	SA1 Doc
SP-23	SP-040203	22.140	041	1	Rel-6	B	MMS targetting UE elements	6.4.0	6.5.0	

CR-Form-v7

CHANGE REQUEST

⌘ 22.140 CR 041 ⌘rev 1 ⌘ Current version: 6.4.0 ⌘

*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⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	MMS targetting UE elements
Source:	⌘	SA
Work item code:	⌘	MMS
Date:	⌘	16/03/2004
Category:	⌘	**B**

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.

Release: ⌘ REL-6

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 heading of the section, i.e., “MM not intended for presentation”, in clause 5.2 is unclear.
Summary of change:	⌘	In clause 5.2 the section is titled “MM intended for applications on the UE”. Furthermore it is noted that the intended application may present the MM contents.
Consequences if not approved:	⌘	The requirement within this section is unclear and could lead to misinterpretation.

Clauses affected:	⌘	5.2

		Y	N		
Other specs Affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments: ⌘

5.2 Multimedia message delivery and submission

- **Submission mechanism**

  The MMS shall support multimedia messages or messages elements to be submitted from the sender's UE.

- **Push Mechanism**

  The MMS shall be able to support a request for multimedia messages or messages elements to be automatically delivered to the recipient's UE.

- **Pull Mechanism**

  The MMS shall be able to support a request for multimedia messages or messages elements to be delivered to the recipient's UE on request by the recipient.

Note: Push and pull delivery mechanisms could be identical; the criteria which decide on the type of mechanism (push / pull) are either described in the User Services Profile or out of the scope of this specification.

- **Concurrency**

  The MMS shall be able to support MM delivery to and from the user's terminal not be restricted during other active services (subject to the capabilities of the terminal and the network).

- **Streaming**

  The MMS shall be able to support streaming for MM delivery from the MMS system to the terminal.

  Support for streaming for MM upload from the terminal to the MMS system will be considered for future releases.

- **Preferred Bearer**

  It shall be possible to define a list of precedence for bearers in the configuration information setsfor delivery and submission of MM (e.g. GPRS, CSD). By default, the the terminal shall be able to support automatic bearer selection (i.e. without user intervention) based on the order of precedence defined in the configuration information sets on the USIM[7] or SIM [8]. The user shall be able to enable or disable automatic bearer selection. When disabled, manual bearer selection shall be available from the list of bearers.

- **Conditional delivery mechanism**

  It shall be possible for the user to define in the User Profile a set of conditions that determine which delivery mechanism should be used for the delivery of a MM.

  Such conditions should include:

  - Roaming status of the recipient (e.g. inside or outside the home network)
  - Identity of the MM originator
  - Time of day (of the recipient's home network)
  - Upper limit to the MM size

  The notification message indicating an MMS awaiting delivery shall relay the information of the user's preferred delivery mechanism, if such information is made available by the user profile in the network, to the UE. If a mismatch is identified between the delivery mechanism configured in the UE and the delivery mechanism indicated in the notification message, it shall be possible for the user to select either the delivery mechanism configured in the UE or the delivery mechanism indicated in the notification message.

  Furthermore, the terminal may also display a warning prior to the download of a message depending on some terminal parameters such as:

  - Available storage capacity
  - Remaining battery life

- Available bearers

For example, the user may elect to have all MMs downloaded automatically when in the home network, be able to manually select whether to download a MM or not when roaming.

It shall be possible for the network operator to program a default set of rules for the delivery mechanism in the User profile. Such rules can be overridden by the user.

Note: The way the user profile is accessed and modified is not subject of standardisation.

~~- MM **not intended for presentation**~~

- MM intended for applications other than the default MMS client on the UE

The MMS shall support MMs that are not intended for presentation but used to originate and deliver information to applications residing on the UE other than the default MMS client.

Note: The intended application can present the MM contents.

When an application sends a MM not intended for presentation, it shall be possible to uniquely identify that originating application and the target application on the recipient UE as well as the instance of the application if more than one instance can be active. The originating application may reside on a UE or within the network.

The message payload shall not be modified by the MMS.

If the MM is originated by the subscriber's home environment, it shall be possible to protect the MM from accidental deletion by the user.

5.2.1 MM delivery to and submission from a VASP

- **VASP submission mechanism**

The MMS shall support multimedia messages or messages elements to be submitted from a VASP.

- **VASP delivery mechanism**

The MMS shall be able to support multimedia messages or messages elements to be delivered to a VASP.

- **VASP mass distribution**

The MMS shall be able to support a request from a VASP for mass distribution of MMs to recipients.

- **Additional VASP data**

The MMS shall be able to convey additional data associated with an MM from a VASP to the MMS service provider and vice versa.

Note: A possible use case for this could be the option to sent additional charging information from the VASP to the MMS service provider. However the data itself is not specified for this release.