Technical Specification Group Services and System Aspects
Meeting #20, Hämeenlinna, Finland, 09-12 June 2003

TSGS#20(03)0250

Source:	**SA1**
Title:	**CRs to 22.038 to (U)SIM toolkit commands for MMS (Rel-6)**
Document for:	**Approval**
Agenda Item:	**7.1.3**

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CR-Form-v7

CHANGE REQUEST

⌘ **22.038** **CR** **013** ⌘**rev** **-** ⌘ Current version: **5.2.0** ⌘

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

Title:	⌘	MMS support on the card
Source:	⌘	SchlumbergerSema
Work item code:	⌘	MMS-R6
Date:	⌘	08/04/2003
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:	⌘	Add the USIM as an external interface for MMs. This will enable the use of the UICC as a removable media to transfer MMs between devices.
Summary of change:	⌘	Add proactive capabilities to manage the MMs.
Consequences if not approved:	⌘	

Clauses affected:	⌘	6.2			
Other specs affected:	⌘	Y / N	Other core specifications	⌘	TS 31.111, TS 31.101
		X /	Other core specifications		
		/ X	Test specifications		
		/ X	O&M Specifications		
Other comments:	⌘				

6.2 SAT/USAT proactive capability

The SAT/USAT proactive capability is a mechanism whereby the USIM/SIM can request specific actions to be taken by the ME by issuing "proactive commands" thus establishing and maintaining an interactive dialogue with the user and/or communicating with the network or an external device.

The ME shall inform the USIM/SIM of the success or otherwise of each command issued to it by the USIM/SIM, and also indicate the command details and if applicable add more specific information.

The proactive command set allows the SAT/USAT to instruct the ME to:

1 display text supplied by the USAT/SAT on the ME's display, with an indication of priority (normal or high), and a defined action (user activity or timeout) to terminate the text display.

2 display a text string and obtain the response in the form of a single user keystroke or a string of keys entered by the user and pass the response to the USIM/SIM. If the response is designated as private by the USIM/SIM the ME shall not display the users response on the screen.

3 set up a voice call to an address with a specific priority as indicated by the USIM/SIM with all parameters indicated by the USIM/SIM.

4 set up a data call to an address with specific bearer capability and priority, all parameters are indicated by the USIM/SIM.

5 set up and manage a data channel (using a CSD, GPRS, SMS, MMS or USSD bearer) between the USIM/SIM and an address using information provided by the USIM/SIM.

6 send data through a previously set up data channel. The USIM/SIM informs the ME if the data is to be sent immediately.

7 retrieve data from the ME that has previously been received via a data channel set up using (5) above. The USIM/SIM informs the ME as to how much data it expects to retrieve.

8 send a short message to the network. The short message text is supplied by the USIM/SIM to the ME in either packed or unpacked SMS 7-bit alphabet, or UCS2 alphabet.

9 send a MM to the network, using a data channel as (5) above. The MM content is supplied by the USIM via the ME, or by the ME.

~~9~~10 send a SS control, SS MMI string or USSD string, indicating which alphabet is used where applicable.

~~10~~11 play a tone in the appropriate audio device.

~~11~~12 negotiate, within reasonable tolerances, a periodic "polling" of the USIM/SIM Toolkit.

~~12~~13 refresh the image (if applicable) of the USIM/SIM data contained in the ME memory, either entirely, or partially, or instruct the ME to re-initialize completely.

~~13~~14 set up an event list in the ME such that the USIM/SIM is informed by the ME when a USIM/SIM indicated event has occurred.

~~14~~15 set up an additional menu in the ME, by issuing the ME with a menu list, and allow indication back to the USIM/SIM of the user selected menu item.

~~15~~16 provide requested information from the ME to the USIM/SIM, for example the MCC, MNC and IMEI.

~~16~~17 communicate bi-directionally with an auxiliary device, e.g. a second card reader.

~~17~~18 set up, refresh and interrogate several timers, and inform the USIM/SIM when these expire, within reasonable tolerances.

~~18~~19 display additional MMI information such as display information or tones with commands that employ network resources, with an indication to the ME as to the required level of ME generated MMI as a result of the interaction with the network.

~~19~~20 allow the ME to display help information with the commands, by providing the associated text, related to the user action (e.g. menu selection).

~~20~~21 Provide indication from the ME to the USAT when a key on the MMI has been pressed in a "menu" (response to prompt) or and event (independent action) methods, with key identification. This indication shall be done in a secure manner.

Unless otherwise stated the following shall apply:

- The format of text to be displayed is designated by the USIM/SIM and is either SMS default alphabet (packed or unpacked) or UCS2 alphabet.
- The format of the response from the ME is designated by the USIM/SIM and is either keypad digit (0-9, *, #, +), SMS default alphabet characters or UCS2 alphabet characters.