
Source: SA1
Title: CR to 22.140 to clarify prioritisation (Rel-6)
Document for: Approval
Agenda Item: 7.1.3

SA Doc	Spec	CR	Rev	Phase	Cat	Subject	Old Vers	New Vers	SA1 Doc
SP-030024	22.140	024	-	Rel-6	C	Update to 22.140 to clarify prioritisation	6.0.0	6.1.0	S1-030267

CR-Form-v7

CHANGE REQUEST

⌘ **22.140 CR 024** ⌘ rev - ⌘ Current version: **6.0.0** ⌘

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:	⌘ Update to 22.140 to Clarify Prioritisation		
Source:	⌘ SA1 (Openwave)		
Work item code:	⌘ MMS6-SR	Date:	⌘ 23/01/2003
Category:	⌘ C	Release:	⌘ REL-6
	Use <u>one</u> 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 <u>one</u> 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 current version of 22.140 contains a requirement for MM prioritisation that is ambiguous. It currently implies that MM prioritisation is something that will provide prioritised handling of the MM by the network. The delivery of that prioritised handling, when possible at all, is very complex. Some readers have also interpreted the requirement to be a method to tag a MM with an importance level. The SA1 Messaging SWG discussed this and agreed that the proposed new wording for prioritisation is the MMS requirement.
Summary of change:	⌘ This CR changes the meaning of the prioritisation requirement to no longer require handling by the network. The new meaning is that prioritisation is used by the sender of an MM to indicate the importance she places on the MM to the recipient. As a result of this new definition of prioritisation, the "priority" field previously defined in the charge record has also been removed by this CR.
Consequences if not approved:	⌘ The current ambiguous definition will continue to confuse readers of the specification.

Clauses affected:	⌘ 5.1, 8						
Other specs	⌘ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>Y</td><td>N</td></tr><tr><td>X</td><td></td></tr></table> Other core specifications	Y	N	X		⌘ 23.140	
Y	N						
X							

affected:

<input checked="" type="checkbox"/>	Test specifications
<input checked="" 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/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.

5.1 Multimedia message management

- Terminal-sensitive MM management

The MMS shall be able to support the capability for the terminal and network to take account of the capability of the user's terminal (e.g. deliver a MM / notification in a manner compatible with the terminals capability).

- Terminal status-sensitive MM Management

The MMS shall be able to support the capability of the network to take account of the availability, changes of the state of availability of the terminal (e.g. store messages if the recipient is not available).

- MMS Control by the operator

The MMS shall be able to support a request from the operator to enable/disable MM delivery and submission.

- MMS Control by the user

The MMS shall be able to support a request from the user to enable/disable MM delivery and submission.

This requirement shall be supported at the application layer in the terminal, and will not be further elaborated.

- Storage of MMS parameters

The USIM shall be able to store the following types of MMS related data:

i) a number of sets of issuer configuration information to allow access to MMS services.

At least one of these sets of configuration information should be stored on the USIM by the issuer of the USIM.

The first issuer configuration information set is denoted as the default configuration set.

This configuration information shall only be configurable by the issuer of the USIM.

ii) a number of sets of user configuration information to allow access to MMS services.

If more than one set of configuration information is present, it shall be possible for the user to select which set is used. If the user has not selected any of the configuration information sets, then the default set in the active USIM is used.

iii) MMS notifications

iv) MMS user preferences

A terminal using a USIM [7] or a SIM [8] with these MMS parameters, shall by default use them and the related preferred bearer, to access to the MMS services.

Note: Terminal support of SIM and USIM in general is specified in TS 22.101[1].

- Personalise multimedia messaging

The MMS shall be able to support a request by the user to manage the Service Preferences of his User Service Profile related to this MMS [2](e.g. customise his MM environment within the capabilities of the terminal, network and MM application. This could be unconditional or conditional e.g. depending on roaming conditions or operator restrictions).

- MM creation

The MMS shall be able to support the request to create a MM by the user or an application.

This requirement shall be supported at the application layer in the terminal, and will not be further elaborated.

- **MM Time Stamping**

The MMS shall be able to support the request to include a reliable time value in an MM, a notification and an acknowledgement as appropriate.

- **Multiple Media**

Multimedia messages may be composed of either a single medium (e.g. voice) or multi-media (e.g. Voice and video). The MMS shall be able to support a request for media synchronisation / sequencing.

- **Media Type Conversion**

The MMS shall be able to support a request to convert between media types (e.g. Fax to image). The MMS shall be able to support an indication from a VASP that VASP originated content of an MM should not be converted or changed by the MMS service provider before it is delivered to the recipient.

This requirement shall be supported at the application layer in the network, and will not be further elaborated.

- **Media Format Conversion**

The MMS shall be able to support a request by the user or the application to convert between MM media formats (e.g. JPEG to GIF).

This requirement shall be supported at the application layer in the terminal and/or in the network, and will not be further elaborated.

- **Message forwarding**

The MMS shall be able to support a request to forward multimedia messages or multimedia message elements without having to first download the MM to the terminal. The MMS shall provide a mechanism to prevent an MM forwarding loop (e.g. MMs are setup to be automatically forwarded from User A to B, then from B to C and from C back to A. Users A, B, and C are unaware that they have setup this undesirable situation).

- **Storage of Multi-Media Messages**

The MMS shall be able to support a request for multimedia messages or message elements to be stored until delivered to the recipient's terminal, until they expire, or until they are deleted by the user (unless configured differently). The MMS shall be able to support a request to store and manage all MMs in a network based repository rather than on the mobile terminal.

NOTE: There is no requirement for the MMS to be responsible for the processing/presentation of the MM message, after it has been delivered to the terminal.

- **Prioritisation of Messages**

The MMS shall be able to support a request for MM prioritisation ~~subject to the capabilities of the network (e.g. the sender of the MM may request to prioritise the importance of the multimedia messages).~~ The prioritisation is passed to the recipient(s) of the message as an indication of the importance the sender places on the message. MM prioritisation is not acted upon by the network.

- **Message qualification**

The MMS shall be able to support a request for MM qualification (e.g. subject) for the purpose of advanced user experience and awareness.

- **Screening of Messages**

The MMS shall be able to support a request for MM screening subject to the capabilities of the network (e.g. automatically delete "junk mail", anonymous messages without delivery to the recipient's terminal).

This requirement shall be supported at the application layer in the terminal an/or in the network, and will not be further elaborated.

- **Validity Period**

The MMS shall be able to support a request by the originator of a message to define validity periods (earliest and latest desired time) for message delivery (e.g. if a message can not be delivered within a certain time it will be

automatically deleted). The MMS service provider shall be able to set the MAXIMUM allowable validity period for any message.

- **Multimedia Message Processing by a VASP**

The MMS shall be able to support a request for messages to be processed by a VASP. An example of such processing may be where an MM is sent to a VASP before delivery to the recipient so that the VASP can add multimedia element(s) to the original message.

- **Replacing MM**

The MMS shall be able to support a request by a VASP to replace a previously sent MM from the VASP with a second newer MM.

- **Cancellation of MM**

The MMS shall be able to support a request by a VASP to delete a MM that had previously been sent from the VASP but not yet delivered to the terminal.

Next changed section:

8 Charging

The MMS shall be able to support various charging models, including:

- Sender pays;
- both Sender and Recipient pay their respective charges for message delivery;
- Recipient pays for receipt of messages from a VASP when there is a commercial agreement between the Recipient and the VASP;
- Sender pays for reply message on a per message basis.
- The third party who has a commercial agreement with the VASP (and possibly additional agreement with the operator and/or recipient) is charged for the delivery of the message to the recipient.

The MMS shall be able to support various charging mechanisms. The following charging characteristics may be considered:

- message types, length, storage time in the network, etc,
- delivering time, upload / download method,
- MM-sender / -recipient,
- number of messages sent,
- number of messages received,
- roaming conditions,
- location conditions,
- Indication of charging,

The MMS indicates to the recipient prior to the recipient downloading a multi media message whether the sender has paid or the recipient is expected to pay for the message.

- Prepaid subscriptions.

~~— Priority of the message (see Prioritisation of Messages in 5.1)~~

- Bearer of the message
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