Source:	**SA1**
Title:	**CR 044R1 to 22.140 on Support of MMS operator specific services (Rel-6)**
Document for:	**Approval**
Agenda Item:	**7.1.3**

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers. Current	Vers New	SA1 Doc
SP-24	SP-040450	22.140	044	1	Rel-6	B	Support of MMS operator specific services	6.5.0	6.6.0	S1-040540 revised at SA#24

CR-Form-v7

CHANGE REQUEST

| ⌘ | **22.140** CR **044** | ⌘**rev** | **1** | ⌘ | Current version: | **6.5.0** | ⌘ |

*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:	⌘	Support of MMS operator specific services
Source:	⌘	SA1 (T-Mobile)
Work item code:⌘	MMS-6	*Date:* ⌘ 10/05/2004

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:	⌘	TSG T have approved a WID for the introduction of MMS network capabilties to allow introduction of operator specific services dealing with private addressing (e.g. VPN).
Summary of change:⌘		Definition and service requirements for capabilities to support MMS operator specific services have been introduced.
Consequences if not approved:	⌘	The MMS work item on support of advanced MMS services can not be finalised.

Clauses affected:	⌘	3.1; new section 12

	Y	N		
Other specs affected: ⌘	X		Other core specifications ⌘	23.140, 32.270
		X	Test specifications	
		X	O&M Specifications	

Other comments:	⌘	SA has agreed to complete this work within the timeframe of Release 6.

<div style="text-align:center">**First Modified Section**</div>

3 Definitions and abbreviations

3.1 Definitions

Recipient : the recipient is the entity to which a MM has been sent.

Sender: the sender is the entity that sent a MM.

User: the user is the MM sender or the MM recipient.

message element: a message element is a part of a MM consisting of only one media type.

multimedia message: a multimedia message is a message composed of one or more message elements.

multimedia message service: A multimedia message service allows transfer of multimedia messages between users without the requirement for the multimedia messages to be transferred in real-time.

media types: a media type refers to one form of presenting information to a user, e.g. voice or fax.

media formats: within one media type different media formats are applicable for the media presentation, e.g. a picture can be GIF or JPEG format.

network: for the purposes of supporting multimedia messaging, the term network shall be considered to include the mobile operator's network and any functionality which may exist outside the mobile operator's network (i.e.fixed, internet and multimedia technologies etc.), and the support provided by that functionality for multimedia messaging.

Operator Specific Service: network-based and operator administred function being able to perform additional, operator defined, MMS services based on MMS capabilities for address translation and charging.

Value Added Service Provider: see Reference [2].

Short code: A string of alphanumeric characters which addresses a specific service of a Value Added Service Provider.

<div style="text-align:center">**New Section**</div>

12 Support of Operator Specific Services

The MMS may support operator specific services. Thereby network operators shall be able to provide additional MMS services dealing with enhanced addressing and charging.

If supported, the interaction between the MMS and Operator Specific Service shall happen immediately after multimedia message submission time or immediately before multimedia message delivery time, or both.

Multimedia Messages sent or delivered from/to users shall be subject to operator specific services handling if:

- the user is provisioned with operator specific services in the MMS user profile. The user may be provisioned independently for operator specific services applicable for submission and delivery of multimedia messages. Provisioning of Operator Specific Services for MMS is under control of the HPLMN operator.

- the MMS determines based on a pre-analysis of the recipient's address(es) found in a submitted multimedia message that an Operator Specific Service needs to be invoked. The definition of the addresses invoking MMS Operator Specific Services is under control of the HPLMN operator(s) of the originating and terminating subscribers.

If the Operator Specific Services needs to be invoked, the MMS shall temporarily suspend the normal process of that multimedia message and shall provide the Operator Specific Services with at least the following information:

- messaging event (submission, delivery)

- multimedia message data:

    - sender identification

    - recipient addresses

As a response to the above request from the MMS, the Operator Specific Services may request the MMS to perform one of the following actions:

- leave the multimedia message unmodified and proceed with its processing;

- reject the message.

- modify one or more of the following multimedia message data:

    - sender identification

    - recipient addresses

Operator Specific Services shall be allowed to influence charging of the message by providing additional information to the MMS. The MMS shall transparently forward this information to the billing systems together with the MMS charging relevant data.

12.1 Service Interaction

This subclause specifies interactions between Operator Specific Services and other services in the MMS.

12.1.1 VASP Services

Operator Specific Services take precedence over VASP services. If short code addressing to Value Added Services is supported by the MMS, the result from an Operator Specific Service shall be subject to short code address translation.

Multimedia Messages submitted from a VASP may be subject to operator specific services.

End