**3GPP TSG-T (Terminals) Meeting #21** ***TP-030175***
**Frankfurt, Germany**
**17 - 19 September, 2003**

3GPP TSG-T2 #22 ***T2-030529***
Cambridge, UK
25 – 29 August 2003

**Agenda Item:** MMS REL-6 WID

**Source:** SWG3

**Title:** Revised MMS Enhancements WID (Rel-6)

**Document for:** Approval

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## Work Item Description

### Multimedia Messaging Service (MMS) Enhancements

**1 3GPP Work Area**

| | |
|---|---|
| | Radio Access |
| | Core Network |
| X | Services |

**2 Linked work items**

- *IP Multimedia Subsystem (IMS) (SA1, SA2)*
- *USIM (T3)*
- *Charging (SA5)*
- *OSA enhancements (SA1, SA2, CN5)*
- *IMS Messaging (SA1, SA2)*
- *IMS Group Management (SA1, SA2)*
- *Generic User Profile (SA1, SA2)*
- *DRM (SA1)*
- *Push (SA1, SA2)*
- *PSS (SA4)*

**3 Justification**

A need for further elaboration and new functionality of MMS is identified. Therefore the following items are planned to be included in the expected work on MMS

**4 Objective**

Further MMS work might require changes to 22.140.

MMS work will target the following areas:

- Consider and accommodate the needs of 3GPP IP Multimedia Subsystem (IMS): investigations ongoing on which kind of MMS support is needed for the deferred mode of IMS Messaging
- Support for enhanced charging methods: e.g. transparency to the user, improvements of interoperator charging mechanisms

The following areas might be targeted depending on the outcome of investigations:

- Consider and investigate enhancements to functionalities of the MMS Relay/Server and MMS UA/UE reference point (MM1)
- Enhancements to MMS Relay/Server to MMS Relay/Server reference point (MM4)
- Support for enhancements of terminal capability negotiation mechanism to ensure terminal interoperability (e.g. legacy handset support): e.g. **s**upport for UA capability detection
- Enhancements of USIM and USAT aspects of MMS
- Support for security and privacy enhancements: e.g. End to End Security, terminal security, prevention of Spam
- Support for enhancements of the interworking with external messaging systems
- Support for enhancements of the interworking with VAS applications
- Support for enhancements for addressing: e.g. enhancements in case of profile-based MM forwarding
- Support for enhancements for media types/formats and multimedia presentation (work expected to be done by SA4)

Furthermore, the following areas are understood to be completed. (In case the need for further enhancements is identified this can be addressed.):

- Support for Digital Rights Management
- Support for defining over-the-air provisioning of MMS

The listed items shall ensure interoperability and shall be implemented in a way that will ensure backwards compatibility.

## 5 Service Aspects

The MMS allow users to send and receive messages exploiting the whole array of media type available today, e.g. text, sound, images, video, while also making it possible to support new content types as they become popular.

## 6 MMI Aspects

- Content presentation
- Service activation
- Provisioning of the service
- Message handling

## 7 Charging Aspects

MMS should standardise charging mechanisms especially in roaming situations and between different operators. Other charging mechanisms (e.g. air time) may be needed when MMS Relay/Server are outside of the operator's domain. The support for prepaid in MMS is required. Further Liaison with TSG-SA5 for charging issues is expected.

## 8 Security Aspects

Security enhancements (e.g. VPN/IPSEC, End to End Security, terminal security). Liaison with TSG-SA3 for security issues is intended.

## 9 Impacts

| Affects: | USIM | ME | AN | CN | Others |
|---|---|---|---|---|---|
| Yes | Yes | Yes | | | Yes |

| | | | | | |
|---|---|---|---|---|---|
| **No** | | | No | | |
| **Don't know** | | | | Don’t know | |

**10 Expected Output and Time scale (to be updated at each plenary)**

| **New specifications** | | | | | | |
|---|---|---|---|---|---|---|
| Spec No. | Title | Prime rsp. WG | 2ndary rsp. WG(s) | Presented for information at plenary# | Approved at plenary# | Comments |
| | | | | | | |
| | | | | | | |

| **Affected existing specifications** | | | | |
|---|---|---|---|---|
| Spec No. | CR | Subject | Approved at plenary# | Comments |
| 22.140 | | Multimedia Messaging Service; Service aspects; Stage 1 | SA#21 | Under SA1 responsibility |
| 23.140 | | Multimedia Messaging Service (MMS); Functional description; Stage 2 | T#22 | Under T2 responsibility |
| 26.140 | | Multimedia Messaging Service (MMS); Media formats and codecs | SA#22 ? | Under SA4 responsibility |
| 26.233 | | End-to-end transparent streaming service; General description | SA#22 ? | Under SA4 responsibility |
| 26.234 | | End-to-end transparent streaming service; Protocols and codecs | SA#22 ? | Under SA4 responsibility |
| 32.235 | | Charging data description for application services | SA#22 ? | Under SA5 responsibility |
| 31.102 | | Characteristics of the USIM Application | SA#22 ? | Under T3 responsibility |
| 29.198 | | Open Service Access (OSA) Application Programming Interface (API); | CN#22 ? | Under CN5 responsibility |

**11 Work item rapporteurs**

Josef Laumen, Siemens

**12 Work item leadership**

TSG-T2

**13 Supporting Companies**

Comverse, Nokia, Siemens, Vodafone, Orange, Ericsson, Sony Ericsson, TeliaSonera, TIM, Motorola, T-Mobile, Telefonica, AWS, Access, Huawei

**14 Classification of the WI (if known)**

| | |
|---|---|
| X | Feature (go to 14a) |
| | Building Block (go to 14b) |
| | Work Task (go to 14c) |

14a The WI is a Feature: List of building blocks under this feature

none

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- Consider and investigate enhancements to functionalities of the MMS Relay/Server and MMS UA/UE reference point (MM1)
- Enhancements to MMS Relay/Server to MMS Relay/Server reference point (MM4)
- ~~Support for enhanced interworking and transcoding issues~~
- Support for enhancements of terminal capability negotiation mechanism to ensure terminal interoperability (e.g. legacy handset support): e.g. support for UA capability detection
- ~~Support for detail description of User Profile mechanisms: e.g. investigation of support for GUP (e.g. Subscription Management)~~
- Enhancements of USIM and USAT aspects of MMS
- Support for security and privacy enhancements: e.g. End to End Security, terminal security, prevention of Spam
- Support for enhancements of the interworking with external messaging systems
- Support for enhancements of the interworking with VAS applications
- ~~Support for enhancements for streaming~~
- Support for enhancements for addressing: e.g. enhancements in case of profile-based MM forwarding
- ~~Support for enhancement of network based storage model in MMSE~~
- Support for enhancements for media types/formats and multimedia presentation (work expected to be done by SA4)

Furthermore, the following areas are understood to be completed. (In case the need for further enhancements is identified this can be addressed.):

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