3GPP TSG-T (Terminals) Meeting #20 ***TP-030116***
Hämeenlinna, Finland
4 - 6 June, 2003

3GPP TSG-T2 #21 ***T2-030361***
San Diego, CA, USA
12 -16 May 2003

Agenda Item: MMS REL-6 WID

Source: SWG3

Title: Revised MMS Enhancements WID (Rel-6)

Document for: Approval

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:

- 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. **s**upport 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.):

- 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, LogicaCMG, , TIM, Motorola, T-Mobile, Telefonica, AWS, Openwave

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

3GPP TSG-T (Terminals) Meeting #20 ***TP-030116***
Hämeenlinna, Finland
4 - 6 June, 2003

3GPP TSG-T2 #21 ***T2-030361***
San Diego, CA, USA
12 -16 May 2003

Agenda Item: MMS REL-6 WID

Source: SWG3

Title: Revised MMS Enhancements WID (Rel-6)

Document for: approval

~~**3GPP TSG-T (Terminals) Meeting #17**~~ ~~***TdocTP-020206***~~
~~**Biarritz, France, 4 - 6 September, 2002**~~

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)*
- ~~*Presence (SA1, SA2)*~~
- *IMS Messaging (SA1, SA2)*
- *IMS Group Management (SA1, SA2)*
- *Generic User Profile (SA1, SA2)*

- *DRM (SA1~~, SA2~~)*
- *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 ~~targets the following areas which~~ 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:

- Enhancements to functionalities of the MMS Relay/Server and MMS UA/UE reference point (MM1)
- ~~Consider and investigate~~ enhancements to MMS Relay/Server to MMS Relay/Server reference point (MM4)
- ~~Investigate and identify~~ support for enhanced interworking and transcoding issues
- ~~Investigate and identify~~ support for enhancements of terminal capability negotiation mechanism to ensure terminal interoperability (e.g. legacy handset support): e.g. support for UA capability detection

~~Investigate and identify support for alternative User Agent capabilities for MMS~~

- ~~Investigate and identify~~ support for detail description of User Profile mechanisms: e.g. investigation of support for GUP (e.g. Subscription Management)
- ~~Investigate and identify~~ enhancements of USIM and USAT aspects of MMS
- ~~Investigate and identify~~ support for security and privacy enhancements: e.g. End to End Security, terminal security, prevention of Spam

~~Investigate and identify support for Digital Rights Management~~

~~Investigate and identify support for enhanced charging methods~~

- ~~Investigate and identify~~ support for enhancements of the interworking with external messaging systems

~~Consider and investigate use of 3GPP presence service by MMS~~

- ~~Investigate and identify~~ support for enhancements of the interworking with VAS applications
- ~~Investigate and identify~~ support for enhancements for streaming
- ~~Investigate and identify~~ support for enhancements for addressing: e.g. enhancements in case of profile-based MM forwarding
- .~~Investigate and identify~~ support for enhancement of network based storage model in MMSE
- ~~Investigate and identify~~ support for enhancements for media types/formats and multimedia presentation (work expected to be done by SA4)

~~Investigate and identify support for defining over-the-air provisioning of MMS~~

~~Investigate and identify support for interaction with legacy handsets~~

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~~18 ?~~	Under SA1 responsibility
23.140		Multimedia Messaging Service (MMS); Functional description; Stage 2	T#2~~0~~	Under T2 responsibility
26.140		Multimedia Messaging Service (MMS); Media formats and codecs	SA#2~~0~~ ?	Under SA4 responsibility
26.233		End-to-end transparent streaming service; General description	SA#2~~0~~ ?	Under SA4 responsibility
26.234		End-to-end transparent streaming service; Protocols and codecs	SA#2~~0~~ ?	Under SA4 responsibility
32.235		Charging data description for application services	SA#2~~0~~ ?	Under SA5 responsibility
31.102		Characteristics of the USIM Application	SA#2~~0~~ ?	Under T3 responsibility
29.198		Open Service Access (OSA) Application Programming Interface (API);	CN#2~~0~~ ?	Under CN5 responsibility

11 Work item rapporteurs

Josef Laumen, Siemens

12 Work item leadership

TSG-T2

13 Supporting Companies

Comverse, ~~Mobixell Networks, Philips,~~ Nokia, ~~Cellon France,~~ Siemens, ~~Materna,~~ Vodafone, Orange, Ericsson, Sony Ericsson, ~~SchlumbergerSema,~~ TeliaSonera, LogicaCMG, ~~Vimatix, Alcatel, CMG, Taral Networks~~, TIM, Motorola, T-Mobile, Telefonica, AWS, Openwave

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