Title:	LS on the use of MMS as a bearer for USAT
Response to:	LS TP-030167 on MMS support by USAT
Release:	Release 6
Work Item:	MMS as a bearer for USAT

Source:	3GPP TSG-T
To:	3GPP SA2, 3GPP SA1
Cc:	3GPP-T2, 3GPP-T3, OMA-BAC, OMA-MWG, OMA-REQ, OMA-ARCH, ETSI SCP

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Attachments:　　　None

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1. Overall Description:

TSG-T has discussed again the matter of providing an enhanced capability for data download to the USIM application toolkit (USAT) and upload from USAT. At the moment, the generally accepted method for doing download to the UICC is to use SMS as a bearer. Now SA1 has decided, based on operator input, that a new mechanism is required for providing a higher bandwidth capability for USAT. SA2 has sent a liaison statement saying that MMS is an appropriate method for providing higher bandwidth capability for USAT.

TSG-T has reviewed the LS from SA2, and notes that the analysis undertaken in SA2 appears to be quite basic. In TSG-T it was agreed that a more detailed analysis is required to establish exactly what is required in the 3GPP system to support the new requirement. MMS has not been defined as a traditional telecom bearer, however this does not preclude MMS or enhanced MMS to be used as a transport mechanism. The consequence of MMS not being defined as bearer, but rather as an application is that the MMS client might not be under control of either the mobile manufacturer or the operator as the user might download any MMS client compatible with the OS of mobile or run the MMS client on a TE connected to the mobile equipment by a multitude of interfaces each with their set of security aspects. This problem could of course be overcome by creation of a trusted environment, e.g., with a separate client for the USAT, but this would require that MMS would be enhanced such that the sending entity can specifically address a given client.

For your information TSG T would like to recall that the basic functioning of MMS is that first an SMS is sent to a UE in a 3GPP network, then the UE utilises the information to retrieve the MMS message from the network by using WAP protocol over a data connection (PS or CS).

TSG T understands that what are required to enhance USAT is a higher bandwidth and a push capability, but it is not clear to TSG T, if other requirements influence the choice of solution and would like to be informed about any such requirements, e.g., reuse of existing infrastructure for MMS.

TSG T would like to highlight that 3GPP has already defined a transport mechanism in the "Bearer Independent Protocol"(BIP) which allows USAT to set up a data connection. This has already been implemented by some handsets and UICCs. However, as it is now, BIP works only in a "pull" mode. Of course like for other limitation in 3GPP a push mechanism might be added through additions to the standard.

TSG-T has also heard that the Java Community JSR-205 Expert Group is interested in transferring Java Games over MMS and believes that the same issues apply to this, i.e. the simplistic assumption is that the MMS client in the UE can look at the different types of incoming MMS and decide where to send the data (to keep it in the MMS client, to send it to a Games engine, or to transfer it to USAT). The potential issues associated with this seem very similar to those of USAT.

Additionally, TSG-T would like to inform that also other new requirements for handling of MMS in relation to UICC are under discussion, e.g., MMS storage at the UICC and proactive capabilities in the UICC to support MMS management.

This problem space is spread across the 3GPP and OMA communities and therefore this Liaison Statement is also sent to some OMA groups.

TSG-T would be happy to act as a co-ordination point for all input relating to this from different groups, with the intention to propose a way forward based on all input received prior to our next meeting as shown below.

2. Actions:

To SA1, SA2, OMA-BAC, OMA-MWG, OMA-REQ, OMA-ARCH

ACTION: **TSG-T** invites the above groups to look into the matter as described above and provide proposals to TSG-T by the next TSG-T meeting.

3. Date of next TSG-T Meetings:

T#22	10–12 Dec 2003	Hawaii, US
T#23	10–12 Mar 2004	China