Technical Specification Group Terminals
Meeting #6, Nice, France, 13-15 December 1999

TSGT#6(99)266

Agenda Item: **7.3 (WG T2)**

Source: **NTT DoCoMo**

Title: **Comment on MMS Stage 2 (23.140, ver.020 [TP-99241])**

Document for: **Discussion**

This paper introduces our view how technical specification for multimedia messaging service (MMS) discussed in TSG-T2/SWG3 (described in MMS Stage 1 (22.140) [1]) should be specified as a standard for UMTS, then we give a comment on MMS Stage 2 (TS23.140, ver.020 [2]).

Our view for MMS Implementation

We believe that MMS must have (A) compatibility with Internet world and (B) flexibility of the service and implementation to open the door for further evolution [3][4].
(A) Compatibility with Internet world: As everyone knows, current almost digital information and major electronic services or business are based upon Internet architecture. In addition, there is no doubt that any coming new multimedia services and digital communications depend on Internet technologies (IP technologies). Internet world shows that any services and technologies shall have no obstacle between existing IP technologies and open the window for developer and end user if those services want to survive and be defact in the market. Many major succeeded Internet services prove this point. Therefore we must give top priority to this compatibility at services and technologies development for MMS.
(B) Flexibility of the service and implementation: There are various new technologies in Internet world. User can freely select an applicable scheme from those candidates to meet own environment and subject. We can find out this characteristic keep a good competitive situation and accelerate to develop new services and technologies in Internet. Regarding to MMS, it shall accept and handle multimedia data generated by those various Internet technologies. Therefore, to support various existing and coming IP technologies for MMS, we must consider this flexibility of the service and implementation .
As mentioned in the above, in order to achieve the stable support from the market for MMS, it is quite important to pay attention to the above two subject (A) and (B) when we develop the standard.

Comment on MMS Stage-2 (TS23.140, ver.020)

In the presented Information paper, MMS Stage-2 ver020, WAP based implementation scheme is specified in section 8. It describes control sequence and information flow in accordance with the current WAP specification. From a viewpoint of Stage-2 document *"Functional Description"*, it seems that those description in section 8 define too detail implementation scheme. It should be appropriate description for Stage-3 rather than Stage-2. In addition, we have to give mature consideration about the other related function specification (eg. MExE) when we define such detailed implementation scheme.
Regarding to the general guideline of MMS implementation scheme, as described in the above, we believe that the MMS architecture should be flexible and should not close the door for further evolution. There might be several implementation options, e.g. WAP based, IP based, etc. [3][4] In a word, it should allow various implementation schemes. Therefore the specified implementation scheme for MMS should not be based upon single architecture. At least it should give several option in the specification.
According to this our view, we would like to discuss about suitable specification for MMS in TSG-T2/SWG3 in order to complete Stage-2 document.

REFERENCES

[1] 3GPP 22.140: Multimedia Messaging Service Stage 1

[2] 3GPP 23.140: Multimedia Messaging Service Stage 2 (ver.020)

[3] TSGT2#4(99)502, *Multimedia Messaging Service* , NTT DoCoMo

[4] TSGT2#4(99)539, *Multimedia Messaging Service clarification* , Ericsson, Nokia