3GPP TSG SA WG3 Meeting S3#35 St Paul's Bay, Malta, 5 – 8 October 2004

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Summary of cha	nge: <mark>Ж</mark>	Image: # MIKEY RAND is sent in all MSK update MIKEY packets. MIKEY RAND will be used for MUK derivation whenever MUK_C and MUK_I are not present. MIKEY RAND will always be used for MSK derivation (MSK_I and MSK_C) whenever a new MSK is sent. Then, the MGV-F does not need to store MIKEY_RAND fields.								
Consequences i not approved:	f <mark></mark> #	Unnece Possibl bootstr	essary complex e scenarios wh ap procedure i	kity in handli here MSK up s performed.	ing repla	cement	of MUK and are not possib	associa le unle	ated parameters a complete	eters. ete GBA
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6.4.5 MIKEY message structure

6.4.5.1 MSK message structure

The structure of the MIKEY message carrying a MSK key is depicted in Figure 6.5. The actual key that is delivered is kept in the KEMAC payload. The MIKEY-RAND is used to derive e.g. encryption and authentication keys from the received keys. It is sent only in all the initial MSK delivery messages. The identity payloads of the initiator's and responder's IDs shall be included in the MSK transport messages. IDi is the ID of the BM-SC and IDr is the ID of the UE. Security Policy (SP) payload includes information for the security protocol such as algorithms to use, key lengths, initial values for algorithms etc. The Key Validity Data subfield is present in the KEMAC payload when MSK is transported but it is not present for MTK transport. The field defines the Key Validity Time for MSK in terms of sequence number interval (i.e. lower limit of MTK ID and upper limit of MTK ID). The lower limit of the interval defines the SEQs to be used by the MGV-F (see subclause 6.5).

Editor's Note: The type (URI or NAI) of identity payloads to use are for further study.

Editor's Note: The contents of the Security Policy payload depends on the used security protocols. MIKEY [9] has defined Security Policy payload for SRTP, but for other security protocols there is a need to define new Security Policy payloads. The exact definitions of these are FFS.