CHANGE REQUEST										
(#)	33	.246	CR <mark>022</mark>	æ r	ev	- [#]	Current vers	ion:	6.0.0	[X]
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the # symbols.										
Proposed change affects: UICC apps X ME X Radio Access Network Core Network										
Title:	₩ Mc	odification	on of delivery	of MIKEY F	RAND f	ield in M	1SK updates			
Source:	₩ Ax	alto, Ge	emplus							
Work item code:	₩ <mark>WI</mark>	LAN					Date: ⊯	20/0	9/2004	
Category:	Deta	F (corr A (corr B (add C (fund D (edit ailed exp	the following ca ection) responds to a c lition of feature) ctional modification orial modification planations of the 3GPP TR 21.90	orrection in a tion of featur on) above cate	re)		R97 R98 R99 Rel-4 Rel-5	(GSM : (Relea (Relea (Relea	owing rele Phase 2) se 1996) se 1997) se 1998) se 1999) se 4) se 5)	eases:
Reason for chang	ge: ₩	contain store M That all situation per BM Contrain way to UE. So MIKE	tly, TS states the tring an MSK up MIKEY-RAND so implies that ons) the storage MSC) is required to MUK, where trieve MIKE thappens, the Blot, if the same MY-RAND in his tures cannot tak	together wit when receiv of multiple d. iich can be d Y_RAND va M-SC canno IUK is used as MSK updat	ge. Bas h a give ing MS MUK a erived i alue if f t be awa again to be messa	ically, then MUK Ks from In the UE To any re The deliver and The deli	at imposes to to for further MU different BMS iated MIKEY_ from existing asons it is miss MIKEY RAND a MSK, BM-So consequence I	he MG JK & M CS (e.g. RAND GBA I Seed or 1 C will 1 MUK &	V-F the r MSK deriv g. roaming D paramet keys, ther replaced. more pres not include	eed to vation. ger (one e is no sent in the
Summary of chai	nge:¦∺	for MU always	Y RAND is sen JK derivation w be used for M the MGV-F doe	whenever MU SK derivatio	JK_C a n (MSK	nd MUK C_I and N	_I are not pres ISK_C) when	ent. M	IKEY RA	ND will
Consequences if not approved:	* *	Possibl	essary complex le scenarios wh ap procedure is	ere MSK up					-	
Clauses affected	<i>:</i>									
Other specs affected:	*	X	Other core spress specific O&M Specific	ations	s [s	K				
Other comments.	<i>:</i>									

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).

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

Editorís 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.