Source: SA WG3 (Security)

Title: CR to 33.220: Removal of editors notes on Transaction Identifiers

(Rel-6)

Document for: Approval

Agenda Item: 7.3.3

SA Doc	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	SA WG3 Doc	Workitem
number								number	
SP-040377	33.220	003	-		Removal of editors notes on Transaction Identifiers	D	6.0.0	S3-040410	SEC1-SC

Other comments: #

10 - 14 Way 2	.004,	, beiji	ng, c	illia										
CHANGE REQUEST														
*	33.	.220	CR	003	#1	rev	-	ж	Cur	rent ve	ersior	n: 6	0.0.	¥
For <u>HELP</u> on u	sing t	his for	m, see	bottom o	f this pa	ige or	look	at th	е род	o-up te	ext ov	er th	e ₩ sy	mbols.
Proposed change affects: UICC apps# ME X Radio Access Network Core Network X														
Title: ₩	Rer	noval (of edito	ors notes	on Tran	sactio	n Ide	entifie	ers					
Source: #	SA	WG3												
Work item code: ∺	SE	C1-SC								Date:	 3	0/05	/2004	
Category:	Detai	F (corr A (corr B (add C (fund D (edit iled exp	rection) respond lition of ctional in orial methological	ds to a corn feature), modification odification) ns of the al	rection in	ıre)			Us	ease: se <u>one</u> 2 R96 R97 R98 R99 Rel-4 Rel-5	of the (G (R (R (R (R (R (R	SM F eleas eleas eleas	wing re Phase 2, le 1996, le 1997, le 1999, le 4) le 5))))
Reason for change	<u>.</u> هو	Roth	remov	ed editors	notes (aro no	long	nor no	2000	rary.				
Reason for change	;. oo	DOIII	Telliov	eu euitors	i ilules d	are no	ΙΟΠ	Jei III	5053	sai y				
Summary of chang	je: ૠ	First Note: Content generally out of scope of this specification. Replaced by Note stating this and giving HTTP Digest example. Second Note: Not applicable under this heading, therefore deleted. (General problem also solved by key lifetime and key renegotiation)												
Consequences if	\mathbb{H}	First	Note: \	Wrong sta	atement.									
not approved:				te: superfl										
01	00	407												
Clauses affected:	\mathfrak{H}	4.3.7												
Other specs affected:	¥	Y N X X	Test	core spec specification	ons	ns	X	non	е					

************** begin change *****************

4.3.7 Requirements on Transaction Identifier

Transaction identifier shall be used to bind the subscriber identity to the keying material in Ua, Ub and Zn interfaces.

Requirements for Transaction Identifier are:

- Transaction Identifier shall be globally unique;
- Transaction Identifier shall be usable as a key identifier in protocols used in the Ua interface;
- NAF shall be able to detect the home network and the BSF of the UE from the Transaction Identifier.

NOTE: Care has to be taken that the parallel use of GBA and non-GBA authentication between UE and NAF does not lead to conflicts, e.g. in the name space. This potential conflict cannot be resolved in a generic way as it is dependent on specific protocol and authentication mechanism used between UE and application server. It is therefore out of scope of this specification.

For the example of HTTP Digest authentication used between UE and NAF, parallel use is possible as the following applies: <username,password>-pairs must be unique to one realm only. As the NAF controls the realm names, it has to ensure that only the GBA based realm is named with the reserved 3GPP realm name. In the special case that the NAF wants to allow non GBA based authentication in the GBA realm also, it has to ensure that no usernames in the format of a Transaction Identifier are used outside GBA based authentication.

Editor's note: Parallel use of GBA and non GBA infrastructure is ffs. There are use cases when NAF may want to use GBA and non GBA based infrastructures at the same time. For example, a NAF may want to authenticate subscribers both by using normal HTTP Digest authentication (where the usernames and passwords are distributed using some other mechanism than GBA), and by using GBA based HTTP Digest. However, it seems that in most telecommunication protocols, the server side (i.e. NAF) controls the name space related to key identifiers (cf. Transaction Identifier). For example, in HTTP authentication, the server issues the usernames, and does not allow the re use of already existing usernames. The parallel use of GBA and non GBA based infrastructures may cause conflicts on Transaction Identifier namespace. In particular, BSF may assign Transaction Identifier values that NAFs are already using with non GBA UEs.

Editor's note: GBA shall further specify on how security associations are removed and/or updated in NAF.

******* end change *******************