14 - 17 May 2002, Victoria, Canada

CHANGE REQUEST												
ж	33	.203	CR		92	rev	ж	Curr	rent vers	sion:	5.1.0	ж
For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.												
Proposed change affects: # (U)SIM ME/UE Radio Access Network Core Network X												
Title: ೫	Han	dling o	f expiry	time and	d the life	time o	f an SA					
Source: %	Eric	sson										
Work item code: #	IMS	-ASEC	;						Date: ೫	06/	05/2002	2
Category: ⊮ Reason for change	Deta be fo	F (con A (cor B (add C (fun D (edi iiled exp ound in TS33. the UI also s	dition of fi ctional mo- blanation 3GPP <u>TF</u> 203 sug E, which	s to a con eature), odification, s of the a R 21.900. gests th is not a that the	rection in on of featu) above catu nat a S-C allowed a e P-CSC	ure) egories SCF c	can incre	Us se) ease th P spec	2 R96 R97 R98 R99 REL-4 REL-5 De expiry cification	the fc (GSN (Rele (Rele (Rele (Rele (Rele (Rele	A Phase 2 ase 1990 ase 1990 ase 1990 ase 1990 ase 1990 ase 1990 ase 5) ase 5) as prop 3261. 1	2) 5) 7) 3) 9) oosed by rS33.203
Summary of chang	е: Ж	# The change reflects that a SIP registrar cannot increase expiry time registration timer is decided by the S-CSCF							time and	that the		
Consequences if not approved:	ж	Misali	gnment	with SIF	Pi.e. RF	C 326	1					
Clauses affected:	ж	7.1										
Other specs affected:	ж	Τe	ther core est spec &M Spe	ifications	s	ж						
Other comments:	ж											

7.1 Security association parameters

For protecting IMS signaling between the UE and the P-CSCF it is necessary to agree on shared keys provided by IMS AKA, on certain protection methods (e.g. an integrity protection method) and a set of parameters specific to a protection method, e.g. the cryptographic algorithm to be used. The parameters negotiated are typically part of the security association to be used for a protection method.

The security mode setup shall support the negotiation of different protection mechanisms. It shall be able to negotiate or exchange the SA parameters required for these different protection mechanisms. Although the supported protection mechanisms could be quite different, there is a common set of parameters that have to be negotiated for each of them. This set of parameters includes:

- Authentication (integrity) algorithm, and optionally encryption algorithm;
- SA_ID that is used to uniquely identify the SA at the receiving side;
- Key length: the length of encryption and authentication (integrity) keys is 128 bits.

Parameters specifically related to certain protection methods are kept in the annexes describing the protection methods.

The SA between the UE and the P-CSCF will have a limited lifetime. The lifetime timer shall be the same as the registration timer, which is defined per contact address. When the UE registers the registration timer will be negotiated between the UE, the P-CSCF and the S-CSCF. The S-CSCF will be able to accept, decrease or increase reject the proposed expiration time from the UE and the final value or an error message is sent in the response to the UE. The expiry time in the UE will be shorter than the expiry time in the S-CSCF, such that the UE is able to re-register. For each new successful authentication the SA shall be updated. The S-CSCF shall align the expiration of subsequent registrations with any existing registration timer. The SA is deleted if the registration timers expires in the P-CSCF or in the S-CSCF.

[Editors Note: The support of different mechanisms is FFS.]