3GPP TSG-CN SWG2B Milano, Italy, 14-16 Feb 2000

		CHANGE F	REQL				e at the bottom of	
		29.060	CR	067 <u>r1</u>	Currer	nt Versio	n: <mark>3.3.0</mark>	
GSM (AA.BB) or 3	BG (AA.BBB) specific	ation number \uparrow		↑ CR ni	umber as allocated	l by MCC su	ipport team	
For submission	meeting # here \uparrow	for infor		X		strateg n-strateg	iC use on	ıly)
Find the second	ge affects:	ersion 2 for 3GPP and SMG	The latest		is available from: ftp		µ/Information/CR-Form	
Source:	Ericsson					Date:	15 Febr 2000)
Subject:	Distribution	of security data						
Work item:	GTP Enhar	cements						
(only one category shall be marked (B Addition of	modification of fea		lier release	X		Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
<u>Reason for</u> <u>change:</u>	Transfer of GSM secur R99+ SGSI	ity context and un Ns needed.	used UN	ITS authent	ication vecto	rs (quint	uplets) betwe	en
Clauses affecte	ed:							
Other specs affected:		cifications	-	 → List of CF 	Rs: Rs: Rs:			
<u>Other</u> comments:								

S3-000144

Document N2B000352 e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx



<----- double-click here for help and instructions on how to create a CR.

7.7.18 MM Context

The MM Context information element contains the Mobility Management, MS and security parameters that are necessary to transfer between SGSNs at the Inter SGSN Routeing Update procedure.

The Authentication Type Security Mode indicates the type of security keys (GSM/UMTS) and Authentication Vectors (quintuplets/triplets) that are passed to the new SGSN. Authentication mechanism that is the GSM or UMTS.

The Ciphering Key Sequence Number (CKSN) is described in GSM 04.08. Possible values are integers in the range [0; 6]. The value 7 is reserved. The Ciphering Key Sequence Number is applicable to GSM as well as UMTS security key(s). shall be presented if Authentication Type is GSM.

The Key Set Identifier (KSI) is described in UMTS 23.060. Possible values are integer in the range [0; 6]. The value 7 is reserved. The Key Set Identifier shall be presented if Authentication Type is UMTS.

The Used Cipher indicates the <u>GSM</u> ciphering algorithm that is in use.

Kc is the <u>GSM</u> ciphering key currently used by the old SGSN. Kc shall be presented if Authentication Type is GSM <u>GSM keys is indicated in the Security Mode</u>.

CK is the <u>UMTS</u> ciphering key currently used by the old SGSN. CK shall be presented if Authentication Type is <u>UMTS</u>. <u>UMTS</u> keys are indicated in the Security Mode.

IK is the <u>UMTS</u> integrity key currently used by the old SGSN. IK shall be presented if Authentication Type is UMTS <u>UMTS</u> keys are indicated in the Security Mode.

The Triplet array contains triplets encoded as the value in the Authentication Triplet information element The Triplet array shall be presented if Authentication Type is GSM.indicated in the Security Mode.

The Quintuplet array contains Quintuplets encoded as the value in the Authentication Quintuplet information element. The Quintuplet shall be presented if Authentication Type is UMTS indicated in the Security Mode.

The Triplet array contains triplets encoded as the value in the Authentication Triplet information element.

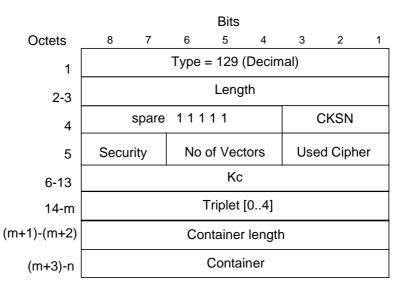
The DRX parameter indicates whether the MS uses DRX mode or not.

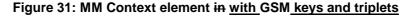
MS Network Capability provides the network with information concerning aspects of the MS related to GPRS.

The DRX parameter and the MS Network Capability are coded as described in GSM 04.08.

The two octet Container Length holds the length of the Container, excluding the Container Length octets.

The Container contains one or several optional information elements as described in the sub-clause 'Overview', from the clause 'General message format and information elements coding' in GSM 04.08.





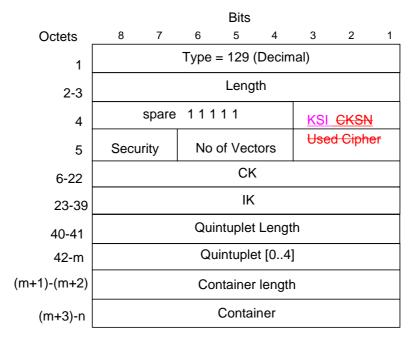


Figure 32: MM Context element in with UMTS keys and quintuplets

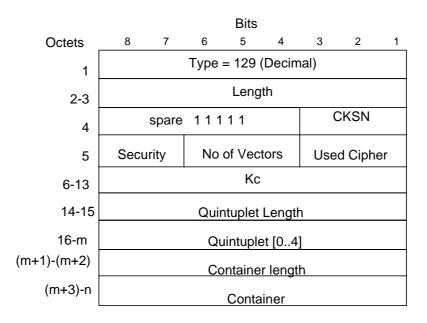


Figure 33: MM Context element with GSM keys and UMTS quintuplets

Table 44: Used Cipher values

Cipher Algorithm	Value (Decimal)			
No ciphering	0			
GEA/1	1			

3

Table 45: Security Type Mode Values

Security Type Mode	Value (Decimal)		
GSM key and triplets	<u>1</u> 3		
GSM key and quintuplets	<u>32</u>		
UMTS key and quintuplets	2		