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3GPP TSG SA 3 Meeting #14 Oslo, Norway, 1-4 August 2000							S3-0004 3GPP use the format T SMG, use the format F	P-99xxx
		CHANGE F	REQI	JEST	Please s page for		file at the bottom of t to fill in this form co	
		33.102	CR	105		Current Versi	on: <u>3.5.0</u>	
GSM (AA.BB) or 3G	(AA.BBB) specific	ation number ↑		↑ C	CR number as	s allocated by MCC	support team	
For submission to: SA#9 list expected approval meeting # here		for approval X for information W version 2 for 3GPP and SMG The latest version of this form is av				strategic (for SMG non-strategic use only)		
Proposed chang (at least one should be m	e affects:	(U)SIM	ME		UTRAN /		Core Network	
Source:	Siemens A	tea				Date:	1 August 20	00
Subject:	Length of C	CFN						
Work item:	Security							
Category:FA(only one categoryshall be markedCwith an X)	Corresponds to a correction in an earlier release Addition of feature Functional modification of feature						Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	x
<u>Reason for</u> change:	The length	of the CFN was se	et to 7 b	its. It is 8	bits.			
Clauses affected	l: 6.6.4.	1						
Affected:	Other 3G core specifications \rightarrow List of CRs:Other GSM core specifications \rightarrow List of CRs:MS test specifications \rightarrow List of CRs:BSS test specifications \rightarrow List of CRs:O&M specifications \rightarrow List of CRs:							
<u>Other</u> comments:								

1



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

3GPP

6.6.4.1 COUNT-C

The ciphering sequence number COUNT-C is 32 bits long.

There is one COUNT-C value per logical RLC AM channel, one per logical RLC UM channel and one for all logical channels using the transparent RLC mode (and mapped onto DCH).

COUNT-C is composed of two parts: a "short" sequence number and a "long" sequence number. The update of COUNT-C depends on the transmission mode as described below (see figure 16c).

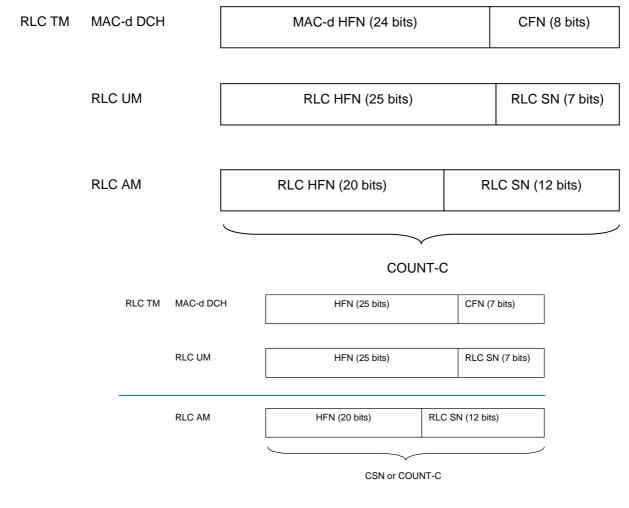


Figure 16c: The structure of COUNT-C for all transmission modes

- For RLC TM on DCH, the "short" sequence number is the 78-bit ciphering frame number CFN of the UEFN. It
 is independently maintained in the ME MAC entity and the SRNC MAC-d entity. The "long" sequence number
 is the 2524-bit MAC HFN which is incremented at each CFN cycle. The ciphering sequence number CSN or
 COUNT-C is identical to the UEFN.
- For RLC UM mode, the "short" sequence number is the 7-bit RLC sequence number RLC SN that is available in each RLC PDU (it is not ciphered). The "long" sequence number is the 25-bit RLC HFN which is incremented at each RLC SN cycle.
- For RLC AM mode, the "short" sequence number is the 12-bit RLC sequence number RLC SN that is available in each RLC PDU (it is not ciphered). The "long" sequence number is the 20-bit RLC HFN which is incremented at each RLC SN cycle.

The hyperframe number HFN is initialised by means of the parameter START, which is transmitted from ME to RNC in *RRC connection establishment*. The ME and the RNC then initialise the 20 most significant bits of the RLC HFN and MAC HFN to START; the remaining bits of the RLC HFN and MAC HFN are initialised to 0. The RRC HFN are incremented independently for each logical channel.