help.doc

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

<b>CHANGE REQUEST</b> Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.								
		03.20	CR		Curre	nt Versio	on: <mark>8.0.0</mark>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑								
For submission to	neeting # here ↑	for infor		X		strateg n-strateg	gic use on	ly)
Proposed change (at least one should be me	e affects:	rsion 2 for 3GPP and SMG (U)SIM	_		RAN / Radic		rg/Information/CR-Form-	
<u>Source:</u>	Siemens At	ea				Date:	April 7, 2000	
Subject:	GPRS Ciph	ering algorithm ne	gotiatior	١				
Work item:	Security							
Category:FA(only one categoryshall be markedCwith an X)D	Addition of	modification of fea		lier release		<u>lease:</u>	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X X X X
<u>Reason for</u> change:		does no reflect th ed connection.	e fact tha	at the SGS	N and the M	E are ca	apable to nego	tiate
Clauses affected	<u>.</u> D.4.8							
Other specs ( affected: () N	_	ons fications cifications	-	<ul> <li>List of CF</li> </ul>	Rs: Rs: Rs:			
Other comments:								

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

## D.4.8 Negotiation of GPRS-A5 algorithm

Not more than seven versions of the A5 algorithm will be defined.

When an MS wishes to establish a connection with the network, the MS shall indicate to the network which version(s) of the GPRS-A5 algorithm it supports. The negotiation of GPRS-A5 algorithm happens during the authentication procedure.

The network may renegotiate the version of the GPRS-A5 algorithm in use at inter SGSN routing area update by performing an authentication procedure.

The network shall compare its ciphering capabilities and preferences, and any special requirements of the subscription of the MS, with those indicated by the MS and may take one of the following decisions:

- -1) The network decides to release the connection because no common version of the GPRS A5 algorithm is available or because the MS indicated an illegal combination of supported algorithms.
- -2) The network selects one of the mutually acceptable versions of GPRS A5 to be used.
- 1) If the MS and the network have no versions of the GPRS A5 algorithm in common and the network is not prepared to use an unciphered connections, then the connection is released.
- 2) If the MS and the network have at least one version of the GPRS A5 algorithm in common, then the network shall select one of the mutually acceptable versions of the GPRS A5 algorithms for use on that connection.
- 3) If the MS and the network have no versions of the GPRS A5 algorithm in common and the network is willing to use an unciphered version, then an unciphered connection shall be used.