## 3GPP TSG-SA WG3 #28 Berlin, Germany, 6-9 May 2003

CHANGE REQUEST									CR-Form-v7	
*	33	.206	CR	CR001	⊭ re	<i>'</i> -	¥	Current vers	ion: <b>5.0.0</b>	æ
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the ≭ symbols.										
Proposed change affects: UICC apps\( \mathbb{X} \) ME Radio Access Network Core Network \( \mathbb{X} \)										
Title:	₩ Ad	dition c	of miss	ing line to	Rijndael S	box lis	ting			
Source:	₩ Vo	dafone	/ SAG	E chairma	an					
Work item code:	H							Date: ♯	25/03/2003	
Category:	ж <b>F</b>							Release: %	Rel-5	
Use one of the following categories:  F (correction)  A (corresponds to a correction in an earlier release)  B (addition of feature),  C (functional modification of feature)  D (editorial modification)  Detailed explanations of the above categories can be found in 3GPP TR 21.900.  Use one of the following releases:  2 (GSM Phase 2)  R96 (Release 1996)  R97 (Release 1997)  R98 (Release 1998)  R99 (Release 1999)  Rel-4 (Release 4)  Rel-5 (Release 5)  Rel-6 (Release 6)									) ) )	
Reason for chan	ao: 9º	A line	o io mi	ocina from	the C hav	licting	n the	Rijndael bloc	ok oinhar anaa	ification
Reason for Charl	ge. "							ILENAGE.	k cipilei spec	ilication.
Summary of change:   Addition of missing line to Rijndael S-box listing.										
Consequences it not approved:	f #	33.20	06, it is	desirable				jndael is alrea specification		
Clauses affected	l: ¥	A2.9								
Other specs affected:	*	Y N X X	Other	core spec specification Specificat	ons	¥				
Other comments	: X									

## How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3)	With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## A2.9 The Rijndael S-box

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Sbox[256] = {
99,124,119,123,242,107,111,197, 48, 1,103, 43,254,215,171,118,
202,130,201,125,250, 89, 71,240,173,212,162,175,156,164,114,192,
183,253,147, 38, 54, 63,247,204, 52,165,229,241,113,216, 49, 21,
4,199, 35,195, 24,150, 5,154, 7, 18,128,226,235, 39,178,117,
9,131, 44, 26, 27,110, 90,160, 82, 59,214,179, 41,227, 47,132,
83,209, 0,237, 32,252,177, 91,106,203,190, 57, 74, 76, 88,207,
208,239,170,251, 67, 77, 51,133, 69,249, 2,127, 80, 60,159,168,
81,163, 64,143,146,157, 56,245,188,182,218, 33, 16,255,243,210,
-205, 12, 19,236, 95,151, 68, 23,196,167,126, 61,100, 93, 25,115,
96,129, 79,220, 34, 42,144,136, 70,238,184, 20,222, 94, 11,219,
224, 50, 58, 10, 73, 6, 36, 92,194,211,172, 98,145,149,228,121,
231,200, 55,109,141,213, 78,169,108, 86,244,234,101,122,174, 8,
186,120, 37, 46, 28,166,180,198,232,221,116, 31, 75,189,139,138,
112, 62,181,102, 72, 3,246, 14, 97, 53, 87,185,134,193, 29,158,
225,248,152, 17,105,217,142,148,155, 30,135,233,206, 85, 40,223,
140,161,137, 13,191,230, 66,104, 65,153, 45, 15,176, 84,187, 22};
```