Technical Specification Group Services and System Aspects

TSGS#20(03)0226

Meeting #20, Hämeenlinna, Finland, 09-12 June 2003

Source: SA WG3

Title: 1 CR to 35.206: Addition of missing line to Rijndael S-box listing

(Rel-5)

Document for: Approval

Agenda Item: 7.3.3

The following CR was approved by SA WG3 meeting #28 and is hereby presented to TSG SA#20 for approval.

SA doc#	Spec	CR	R	Phase	Subject		Current Version		SA WG3 doc#
SP-030226	35.206	001	-	Rel-5	Addition of missing line to Rijndael S-box listing	F	5.0.0	SEC1- CSALG01, SEC1- PSALG01	S3-030274

3GPP TSG SA

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

CHANGE REQUEST													
ж 3	5.206 CR	CR001	жrev	- # (Current vers	5.0.0	¥						
For <u>HELP</u> on usin	g this form, see	e bottom of thi	s page or l	ook at the	pop-up text	over the 光 syr	mbols.						
Proposed change affects: UICC apps# X ME Radio Access Network Core Network X													
Title: 第 A	Addition of miss	sing line to Rijr	ndael S-box	listing									
Source: # S	SA WG3												
Work item code: 第 S	SEC-CSALG01	, SEC1-PSAL	G01		Date: ₩	06/05/2003							
De	se <u>one</u> of the foll F (correction) A (correspon) B (addition o	ds to a correction of feature), modification of the above on so the above	on in an earl	ier release)	Use <u>one</u> of 2 R96 R97 R98	Rel-5 the following relation (GSM Phase 2) (Release 1996) (Release 1997) (Release 1999) (Release 1999) (Release 4) (Release 5) (Release 6)	eases:						
Reason for change: A line is missing from the S-box listing in the Rijndael block cipher specification. Rijndael is the example kernel function for MILENAGE.													
Summary of change:	器 Addition of	missing line to	o Rijndael S	S-box listin	ng.								
Consequences if not approved:	35.206, it is		correct the			ady referenced in 35.206 to av							
Clauses affected:	第 A2.9												
Other specs affected:	X Test	r core specific specifications Specifications		X									
Other comments:													

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};
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***** END OF CHANGES *****