



**Universal Mobile Telecommunications System (UMTS);
LTE;**

**Specification of the TUAK algorithm set: A second example
algorithm set for the 3GPP authentication and key generation
functions f_1 , f_1^* , f_2 , f_3 , f_4 , f_5 and f_5^* ;
Document 6: Security assessment
(3GPP TR 35.936 version 12.1.0 Release 12)**



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1 Scope

The present document provides a reference to an independent security assessment of the Tuak algorithm set carried out by the University of Waterloo, Canada.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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[1] 3GPP TS 35. 231: "Specification of the Tuak algorithm set: A second example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*"; Document 1: Algorithm specification "

[2] "Security Assessment of TUAk Algorithm Set"; Guang Gong, Kalikinkar Mandal, Yin Tan, TengWu; Department of Electrical and Computer Engineering University of Waterloo, Canada (available at http://www.3gpp.org/ftp/Specs/archive/35_series/35.935/SAGE_report/Secassessment.zip)

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 35.231 apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TS 35.231 [1].

4 Security assessment of the Tuak algorithm set

The security assessment of the Tuak algorithm set [1] can be found here: [2].

Annex A: Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Nov 2014					First TR version		0.1.0
Dec 2014	SA#66	SP- 140818			Version for information and approval	0.1.0	1.0.0
					Version after approval	1.0.0	12.0.0
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History

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