# ETSI TS 135 217 V10.1.0 (2013-02)



Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE;

> Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data (3GPP TS 35.217 version 10.1.0 Release 10)



#### Reference

RTS/TSGS-0335217va10

Keywords
GSM,LTE,SECURITY,UMTS

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### **Foreword**

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

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Version x.y.z

#### where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

## 1 Scope

The present document specifies the 3GPP confidentiality and integrity algorithms known as UEA2 and UIA2.

## 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.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] ETSI TC SAGE Specification: "Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors" test data" version 1.1

Note: Reference [2] is available via <a href="http://www.etsi.org/WebSite/OurServices/Algorithms/3gppalgorithms.aspx">http://www.etsi.org/WebSite/OurServices/Algorithms/3gppalgorithms.aspx</a> and is subject to licensing conditions described at this site.

## 3 Definitions, symbols and abbreviations

#### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] and in the SAGE Specification [2] apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

## 3.2 Symbols

For the purposes of the present document, the symbols defined in the SAGE Specification [2] apply.

#### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [2] and in the SAGE Specification [2] apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

## 4 Technical provisions

The technical provisons of the current document are contained in the SAGE Specification [2].

# Annex A (informative): Change history

Change history									
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New		
2006-10					Draft document from ETSI SAGE		0.1.0		
2006-03	SP-31				For information to TSG SA. Document not provided due to limitations arising from export controls.	0.1.0	1.0.0		
2006-03					3GPP Support Team recast of document to refer to SAGE Specification	1.0.0	1.1.0		
2006-06	SP-32	SP-060422	-	1-	Approved at SA #32	1.1.0	7.0.0		
2008-12	SP-42	-	-	Ī-	Upgrade to Release 8	7.0.0	8.0.0		
2009-12	1-	-	-	1-	Update to Rel-9 version (MCC)	8.0.0	9.0.0		
2011-03	Ţ-	-	-	]-	Update to Rel-10 version (MCC)	9.0.0	10.0.0		
2012-12	SP-58	SP-120855	004	T-	Correction to UIA2 test vector	10.0.0	10.1.0		

## History

Document history								
V10.0.0	April 2011	Publication						
V10.1.0	February 2013	Publication						