Digital cellular telecommunications system (Phase 2+); Specification of the A5/3 encryption algorithms for GSM and ECSD, and the GEA3 encryption algorithm for GPRS; Document 4: Design and evaluation report (3GPP TR 55.919 version 4.0.0 Release 4)
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Foreword

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Foreword

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

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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.

Introduction

This Report has been produced by ETSI SAGE Task Force for the design of the GSM A5/3 and GEA3 encryption algorithms.

The work described in this report was undertaken in response to a request made by Security Group GSM Association. The work was done under supervision of the ETSI Mobile Competence Centre (MCC) and the GSM Association.
1 Scope

This Technical Report has been prepared by the ETSI SAGE GSM A5/3 Task Force, and gives a detailed report on the design and evaluation of the A5/3 encryption algorithms for GSM and ECSD, and of the GEA3 encryption algorithm for GPRS (including EGPRS).

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.

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[6] Void
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[8] Void
[9] Void
[10] Void

3 Definitions, symbols and abbreviations

3.1 Definitions

3.2 Symbols

For the purposes of the present document, the symbols defined in the Release 7 Report [12] apply.

3.3 Abbreviations


4 Technical provisions

The technical provisions of the current document are contained in the Release 7 Report [2].
## Annex B:
Change history

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