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LTE;
Specification of the 3GPP Confidentiality
and Integrity Algorithms EEA3 & EIA3;
Document 4: Design and Evaluation Report
(3GPP TR 35.924 version 12.0.0 Release 12)**



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Foreword

This Technical Specification has been produced by the 3rd 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 EEA3 and EIA3.

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 of the 3GPP Confidentiality and Integrity Algorithms 128-EEA3 & 128-EIA3; Document 4; Design and Evaluation Report" version 2.0.

NOTE: Reference [2] is available via <http://www.etsi.org/WebSite/OurServices/Algorithms/3gppalgorithms.aspx> 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 provisions 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 |
| 2011-11 | SA-54 | SP-110689 | -- | -- | Submission for Information and Approval | --- | 1.0.0 |
| 2012-01 | -- | -- | -- | -- | Publication | 1.0.1 | 11.0.0 |
| 2012-05 | -- | -- | -- | -- | Reference 2 now to specific version | 11.0.0 | 11.0.1 |
| 2014-09 | - | - | - | - | Update to Rel-12 version (MCC) | 11.0.1 | 12.0.0 |

History

| Document history | | |
|-------------------------|--------------|-------------|
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