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| 3GPP TR 33.801-01 V0.1.0 (2025-10) |
| Technical Report |
| 3rd Generation Partnership Project;Technical Specification Group Services and System Aspects;Study on Security for the 6G System(Release 20) |
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# Foreword

This Technical Report 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.

In the present document, modal verbs have the following meanings:

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

**can** indicates that something is possible

**cannot** indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

**is** (or any other verb in the indicative mood) indicates a statement of fact

**is not** (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

# Introduction

Editor’s note: This clause is ffs.

# 1 Scope

Editor’s note: TBA

# 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".

# 3 Definitions of terms, symbols and abbreviations

## 3.1 Terms

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

**example:** text used to clarify abstract rules by applying them literally.

## 3.2 Symbols

For the purposes of the present document, the following symbols apply:

<symbol> <Explanation>

## 3.3 Abbreviations

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

<ABBREVIATION> <Expansion>

# 4 Security areas and high level security requirements

## 4.1 Security areas

Editor's Note: This clause further clarifies the scope of the study by listing the security areas that SA3 is working on.

## 4.2 Potential high level security requirements

Editor's Note: This clause will document high-level requirements that guide the study.

# 5 Key issues and solutions

## 5.x Security area #x: <security area name>

Editor's Note: The study is expected to be divided into several security areas which all have their own key issues and solutions. Security areas are not in any particular order but they are added incrementally (x = 1, 2, 3…) when new area is identified.

### 5.x.1 Introduction

Editor's Note: This clause will document security assumptions related to each security area.

### 5.x.2 Security assumptions

Editor's Note: This clause will document security assumptions related to each security area.

### 5.x.3 Key issues

Editor’s note: This clause will contain the key issues that need to be addressed by SA3 on each security area. The exact contents are FFS.

#### 5.x.3.y Key issue #x.y: <key issue name>

Editor's Note: Key issues within the security area are not in any particular order but they are added incrementally (y = 1, 2, 3…) when new key issue is identified. 'x' refers to the security area.

##### 5.x.3.y.1 Key issue details

##### 5.x.3.y.2 Security threats

##### 5.x.3.y.3 Potential security requirements

### 5.x.4 Solutions

#### 5.x.4.z Solution #x.z: <solution name>

Editor's Note: Solutions within the security area are not in any particular order but they are added incrementally (z = 1, 2, 3…) when new solution is identified. 'x' refers to the security area.

##### 5.x.4.z.1 Introduction

Editor’s note: Each solution should list the key issues that it addresses. There may be references to the key issues outside the security area.

##### 5.x.4.z.2 Solution details

##### 5.x.4.z.3 Evaluation

# 6 Conclusions

Editor’s note: This clause will contain the overall conclusions made by SA3. Structure of clause is FFS

Annex <A>:
<Informative annex title for a Technical Report>

Informative annexes in Technical Reports do not use "(informative") in the title, since all annexes in TRs are informative. Use style "Heading 9" in TRs.

Annex <F>:
Change history

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| Change history |
| Date | Meeting | TDoc | CR | Rev | Cat | Subject/Comment | New version |
| 2025-10 | SA3#124 |  |  |  |  | Initial version | 0.1.0 |

Change history of this template:

|  |  |  |
| --- | --- | --- |
| 2001-07 | Copyright date changed to 2001; space character added before TTC in copyright notification; space character before first reference deleted. | 1.3.3 |
| 2002-01 | Copyright date changed to 2002. | 1.3.4 |
| 2002-07 | Extra Releases added to title area. | 1.3.5 |
| 2002-12 | "TM" added to 3GPP logo. | 1.3.6 |
| 2003-02 | Copyright date changed to 2003. | 1.3.7 |
| 2003-12 | Copyright date changed to 2004. Chinese OP changed from CWTS to CCSA | 14.0 |
| 2004-04 | North American OP changed from T1 to ATIS | 1.5.0 |
| 2005-11 | Stock text of clause 3 includes reference to 21.905.  | 1.6.0 |
| 2005-11 | Caters for new TSG structure. Minor corrections. | 1.6.1 |
| 2006-01 | Revision marks removed. | 1.6.2 |
| 2008-11 | LTE logo line added, © date changed to 2008, guidance on keywords modified; acknowledgement of trade marks; sundry editorial corrections and cosmetic improvements | 1.7.0 |
| 2010-02 | 3GPP logo changed for cleaner version, with tag line;LTE-Advanced logo line added; © date changed to 2010;editorial change to cover page footnote text;trade marks acknowledgement text modified;additional Releases added on cover page;proforma copyright release text block modified | 1.8.0 |
| 2010-02 | Smaller 3GPP logo file used. | 1.8.1 |
| 2010-07 | Guidance note concerning use of LTE-Advanced logo added. | 1.8.2 |
| 2011-04-01 | Guidance of use of logos on cover page modified; copyright year modified. | 1.8.3 |
| 2013-05-15 | Changed File Properties to MCC macro default. Removed R99, added Rel-12/13.Modified Copyright year.Guidance on annex X Change history. | 1.8.4 |
| 2014-10-27 | Updated Release selection on cover. In clause 3, added "3GPP" to TR 21.905. | 1.8.5 |
| 2015-01-06 | New Organizational Partner TSDSI added to copyright block.Old Releases removed. | 1.9.0 |
| 2015-12-03 | Provision for LTE Advanced Pro logo Update copyright year to 2016 | 1.10.0 |
| 2016-03-08 | Standarization of the layout of the Change History table in the last annex.(Unreleased) | 1.11.0 |
| 2016-06-15 | Minor adjustment to Change History table heading | 1.11.1 |
| 2017-03-13 | Adds option for 5G logo on cover | 1.12.0 |
| 2017-05-03 | Smaller 5G logo to reduce file size | 1.12.1 |
| 2019-02-25 | Replacement of frames on cover pages by in-line text.Clarification of help text on when to use 5G logo.Removal of defunct keywords frame on page 2.Add Rel-16, Rel-17 options, eliminated earlier, frozen, Releases (cover page, below title)Corrections to some guidance text, addition of guidance text concerning automatic page headers under Word 2016 ff.Use of modal auxiliary verbs added to Foreword.More explicit guidance on Bibliography and Index annexes.Converted to .docx format. | 1.13.0 |
| 2019-09-12 | Cover page table outline shown dotted for ease of logo selection. (Author to hide outline after logo selection.) User now needs to delete whole table rows instead of individual cells, which proved to be tricky.Change of style for "notes" in the Foreword to normal paragraphs.Insertion of new bookmarks, correction of location of existing bookmarks. (To improve navigation.)Improvements to guidance text. | 1.13.1 |
| 2021-06-18 | Provision for 5G Advanced logo Update copyright year to 2021Additional guidance on the use of Heading 8/9 in annexes C, D and X. | 1.14.0 |
| 2022-04-01 | Correction of table formattingUpdate copyright year to 2022 | 1.15.0 |
| 2023-03-14 | Updated copyright year to 2023Updated URLs from HTTP to HTTPSUpdated FTP link to HTTP counterpartFixed numbering of annexes | 1.16.0 |
| 2024-03-19 | Updated copyright year to 2024 | 1.17.0 |
| 2024-09-06 | Adds option for 6G logo on the cover page | 1.18.0 |
| 2024-10-15 | Correction of table formatting to ease outline hiding after logo selection. | 1.18.1 |
| 2024-10-18 | Addition/removal of spaces in Release indications and update of Release in the example within the body.Unlock "update field" for ToC | 1.19.0 |