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| 3GPP TR 33.cde V0.1.0 (2025-08) |
| Technical Report |
| 3rd Generation Partnership Project;Technical Specification Group System Aspects;Study on Security Assurance Specification (SCAS) for Container-based Products;(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.

# 1 Scope

The present document studies the applicability and adaptation of the GNP threats/assets in TR 33.926 [2], the GVNP threats/assets in TR 33.927 [3] and the existing general SCAS test cases in TS 33.117 [4] to generic 3GPP container-based network products (GCNPs).

It identifies:

- Critical assets and threats relevant to GCNPs, including adaptations of existing threats and new GCNP-specific threats.

- Applicability of existing SCAS test cases to GCNPs.

- New or modified test cases to address GCNP-specific threats and deployment characteristics.

The study focuses on GCNPs where the container orchestration platform (e.g. Kubernetes) and container runtime are part of the evaluated network product boundary.

# 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".

…

[x] <doctype> <#>[ ([up to and including]{yyyy[-mm]|V<a[.b[.c]]>}[onwards])]: "<Title>".

# 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 Assumptions

Editor's Note: This clause includes the assumptions applicable for the study.

# 5 Assets and threats for Container-based Products

Editor's Note: This clause contains analyses of critical assets and threats in TR 33.926 and TR 33.927 regarding their applicability to container-based network products. This clause also contains analyses if existing assets and threats need to be adapted to container-based network products, and whether new assets and threats for container-based network products are necessary.

# 6 Test cases for Container-based Products

Editor's Note: This clause contains analyses of the test cases in TS 33.117 regarding their applicability to container-based network products. This clause also contains analyses whether existing test cases need to be adapted to container-based network products, and whether new test cases for container-based network products are necessary.

# 7 Conclusions

Editor's Note: This clause contains the agreed conclusions that will form the basis for any normative work.

Annex A:
Change history

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| Change history |
| Date | Meeting | TDoc | CR | Rev | Cat | Subject/Comment | New version |
| 2025-08 | SA3#123 |  |  |  |  | TR skeleton | 0.0.0 |
| 2025-08 | SA3#123 | S3-253038 |  |  |  | Incorporating skeleton (S3-252890) and scope (S3-252710) | 0.1.0 |