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| 3GPP TS 33.521 V0.1.0 (2020-05) |
| Technical Specification |
| 3rd Generation Partnership Project;Technical Specification Group Service and System Aspects;Security Assurance Specification (SCAS) for the Network Data;Analytics Function (NWDAF) network product class; (Release 17) |
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Contents

Foreword 5

Introduction 6

1 Scope 7

2 References 7

3 Definitions of terms, symbols and abbreviations 7

3.1 Terms 7

3.2 Symbols 7

3.3 Abbreviations 8

4 Examples for Styles 8

4.1 Heading Styles 8

4.2 Other common styles 8

"TSG <Name>" on the front page 9

Page setup parameters 9

Proforma copyright release text block 11

X.1 The right to copy 11

Abstract Test Suite (ATS) text block 12

Y Abstract Test Suite (ATS) 12

Y.1 Introduction 12

Y.2 The TTCN Graphical form (TTCN.GR) 12

Y.3 The TTCN Machine Processable form (TTCN.MP) 12

Annex <A> (normative): <Normative annex for a Technical Specification> 13

Annex <B> (informative): <Informative annex for a Technical Specification> 14

B.1 Heading levels in an annex 14

Annex <B>: <Informative annex title for a Technical Report> 15

Annex <C> (informative): Bibliography 16

Annex <D> (informative): Index 17

Annex <X> (informative): Change history 18

For definitive guidance on drafting 3GPP TSs and TRs, see [3GPP TS 21.801](http://www.3gpp.org/DynaReport/21801.htm) supplemented by the 3GPP web page <http://www.3gpp.org/specifications-groups/delegates-corner/writing-a-new-spec>.

Ensure all blue guidance text is removed before submitting the TS/TR to the TSG for approval.

# Foreword

This clause is mandatory; do not alter the text in any way other than to choose between "Specification" and "Report".

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.

In drafting the TS/TR, pay particular attention to the use of modal auxiliary verbs! TRs shall not contain any normative provisions.

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 contains requirements and test cases that are specific to the NWDAF network product class. It refers to the Catalogue of General Security Assurance Requirements and formulates specific adaptions of the requirements and test cases, as well as specifying requirements and test cases unique to the NWDAF network product class.

# 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>".

Editor’s Note: This clause will outline that the present document contains references

# 3 Definitions of terms, symbols and abbreviations

## 3.1 Terms

For the purposes of the present document, the terms given in 3GPP 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 3GPP 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 3GPP 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 3GPP TR 21.905 [1].

<ABBREVIATION> <Expansion>

# 4 NWDAF-specific security requirements and related test cases

## 4.1 Introduction

Editor’s Note: This clause will summarize the NWDAF-specific security requirements and related test cases.

## 4.2 NWDAF-specific security functional requirements and related test cases

Editor’s Note: This clause will document NWDAF-specific security functional requirements and related test cases. The templates of the security requirements and test case are same with the used templates in TS 33.116.

## 4.3 NWDAF-specific adaptations of hardening requirements and related test cases

Editor’s Note: Take TS33.117, section 5.3, as a starting point, and note NWDAF-specific adaptations, if required. Note subclauses as "void" or "no adaptation needed" as appropriate.

## 4.4 NWDAF-specific adaptations of basic vulnerability testing requirements and related test cases

Editor's Note: Take TS33.117, section 5.4, as a starting point, and note NWDAF-specific adaptations, if required. The NWDAF-specific security requirements and related test cases will be described in detail if the requirements are NWDAF-specific.

# Annex <X> (informative):Change history

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| **Change history** |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2020-05 | SA3#99-e | S3-201xxx |  |  |  | Creating new TS | 0.1.0 |

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