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| 3GPP TS 26.51x V0.0.0 (2023-08) |
| Technical Specification |
| 3rd Generation Partnership Project;Technical Specification Group Services and System Aspects;Media delivery; procedures and APIs for provisioning and media session handling;(Release 18) |
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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.

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

This clause is optional. If it exists, it shall be the second unnumbered clause.

# 1 Scope

This clause shall start on a new page.

The present document …

# 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>".

It is preferred that the reference to TR 21.905 be the first in the list.

# 3 Definitions of terms, symbols and abbreviations

This clause and its three (sub) clauses are mandatory. The contents shall be shown as "void" if the TS/TR does not define any terms, symbols, or 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].

Definition format (Normal)

**<defined term>:** <definition>.

**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 format (EW)

<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 format (EW)

<ABBREVIATION> <Expansion>

# 4 Functions and roles

## 4.1 Media Application Provider

Editor's Note: Role of the Media Application Provider in provisioning media features.

## 4.2 Media AF

Editor's Note: Role of the Media AF.

## 4.3 Media Session Handler

Editor's Note: Role of the Media Session Handler.

# 5 Procedures

## 5.1 Introduction

## 5.2 Media session handling APIs relevant to features

Editor’s Note: aligned with 4.2 of TS 26.512, but not restricted to downlink streaming.

## 5.3 Provisioing (M1) procedures

Editor’s Note: aligned with 4.3 of TS 26.512, but not restricted to downlink streaming.

## 5.4 Network media session handling (M3, M5) procedures

Editor’s Note: aligned with 4.7 of TS 26.512, but not restricted to downlink streaming.

## 5.5 UE media session handling (M6, M10) procedures

Editor’s Note: aligned with 4.8 of TS 26.512, but not restricted to downlink streaming.

## 5.6 Data collection and reporting configuration (R2, R4) procedures

### 5.6.1 Direct Data Collection Client (R2) configuration

Editor's Note: New in Rel-18 to support ANBR-based Network Assistance data reporting.

### 5.6.2 Media AS data collection client (R4) configuration

Editor's Note: ported from 4.11.2 of TS 26.512.

## 5.7 Data reporting (R2, R4) procedures

### 5.7.1 Direct Data Collection Client (R2) data reporting

Editor's Note: New in Rel-18 to report invocation of ANBR-based Network Assistance.

### 5.7.2 Media AS (R4) data reporting

Editor's Note: ported from 4.11.3 of TS 26.512.

## 5.8 Event exposure (R5, R6) procedures

Editor's Note: ported from 4.12 of TS 26.512.

# 6 General aspects of APIs

Editor’s Note: port clause 6 from TS 26.512.

# 7 Provisioning (M1) APIs

Editor’s Note: port clause 7 from TS 26.512.

# 8 Network media session handling (M3, M5) APIs

Editor’s Note: port clause 11 from TS 26.512.

# 9 UE media session handling (M6, M10) APIs

## 9.1 General

Editor’s Note: port clause 12.1 from TS 26.512.

## 9.2 Session launch mechanism

### 9.2.1 5G Media Streaming session launch mechanism

#### 9.2.1.1 3GPP Service URL format for 5GMS

Editor’s Note: New Clause.

### 9.2.2 webRTC session launch mechanism

Editor’s Note: New Clause.

## 9.3 Media session handling APIs for downlink media streaming

Editor’s Note: port clause 12.2 from TS 26.512. (Functional model in 12.2.1 should be migrated to TS 26.501.)

## 9.4 Media session handling APIs for uplink media streaming

Editor’s Note: port clause 12.3 from TS 26.512.

## 9.5 Media session handling APIs for webRTC

Editor’s Note: New Clause.

# 10 3GPP Service URLs

# 11 Usage of existing APIs

## 11.1 Introduction

While the core functionality of 5GMS is specified in terms of the dedicated system interfaces and APIs that impact the UE and the network, specified in clauses 6 to 8, certain features of OPA rely on interfaces and APIs that are either IE internal or defined in the 5G Core.

## 11.2 Usage of miscellaneous UE-internal APIs

Editor’s Note: port clause 15 from TS 26.512.

## 11.3 Usage of 5GC interfaces and APIs

Editor’s Note: port clause 16 from TS 26.512.

# 12 Data reporting (R2, R4) APIs

## 12.1 General

Editor’s Note: port clause 17.1 from TS 26.512 as a subclause of this.

## 12.2 Direct Data Collection Client reporting (R2) APIs

Editor’s Note: New clause in Rel-18 to support data reporting of ANBR-based Network Assistance.

## 12.3 Media AS reporting (R4) APIs

Editor’s Note: port clause 17.2 from TS 26.512 as a subclause of this.

# 13 Event exposure (R5, R6) APIs

Editor’s Note: port clause 18 from TS 26.512.

Annex A (informative):
Index of HTTP REST APIs

Editor’s Note: port annex D from TS 26.512.

Annex B (normative):
OpenAPI representation of HTTP REST APIs

Editor’s Note: port annex C from TS 26.512.

Annex C (normative):
Controlled vocabularies of UE data parameters

Editor’s Note: port annex E from TS 26.512.

Annex <F> (informative):
Change history

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| Change history |
| Date | Meeting | TDoc | CR | Rev | Cat | Subject/Comment | New version |
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