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Technical Specification

3rd Generation Partnership Project;

Technical Specification Group Services and System Aspects;

Telecommunication management;

Configuration Management (CM) for mobile networks that include virtualized network functions;

Stage 3

(Release 16)

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Contents

Foreword [4](#__RefHeading___Toc482567023)

Introduction [4](#__RefHeading___Toc482567024)

1 Scope [5](#__RefHeading___Toc482567025)

2 References [5](#__RefHeading___Toc482567026)

3 Definitions and abbreviations [5](#__RefHeading___Toc482567027)

3.1 Definitions [5](#__RefHeading___Toc482567028)

3.2 Abbreviations [6](#__RefHeading___Toc482567029)

4 Interface definitions [6](#__RefHeading___Toc482567030)

4.1 Itf-N [6](#__RefHeading___Toc482567031)

5 NRM Solution Set definitions [6](#__RefHeading___Toc482567032)

Annex A (informative): Change history [7](#__RefHeading___Toc482567033)

# 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.

# Introduction

The present document is part of a TS-family covering the 3rd Generation Partnership Project Technical Specification Group Services and System Aspects, Telecommunication Management; as identified below:

TS 28.510: Telecommunication management; Configuration Management (CM) for mobile networks that include virtualized network functions; Requirements

TS 28.511: Telecommunication management; Configuration Management (CM) for mobile networks that include virtualized network functions; Procedures

TS 28.512: Telecommunication management; Configuration Management (CM) for mobile networks that include virtualized network functions; Stage 2

**TS 28.513: Telecommunication management; Configuration Management (CM) for mobile networks that include virtualized network functions; Stage 3**

# 1 Scope

The present document is Configuration Management stage 3 specification for mobile networks that include virtualized network functions.

# 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] 3GPP TS 28.500: "Telecommunication management; Management concept, architecture and requirements for mobile networks that include virtualized network functions".[3] 3GPP TS 32.606: "Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); Solution Set (SS) definitions".

[4] 3GPP TS 32.616: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Solution Set (SS) definitions".

[5] 3GPP TS 32.666: "Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP); Solution Set (SS) definitions".[6] 3GPP TS 28.623: “Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions”.

[7] 3GPP TS 28.709: “Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions”.

[8] 3GPP TS 28.706: “Telecommunication management; IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions”

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and in 3GPP TS 28.500 [2] 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] or in 3GPP TS 28.500 [2].

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and in 3GPP TS 28.500 [2] 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] or in 3GPP TS 28.500 [2].

# 4 Interface definitions

## 4.1 Itf-N

For Itf-N configuration management of virtualized network functions which can be part of EPC or IMS, the interface IRP solution sets defined in 3GPP TS 32.606 [3], TS 32.616 [4] and TS 32.666 [5] shall be used.

# 5 NRM Solution Set definitions

For Itf-N configuration management of virtualized network functions which can be part of EPC or IMS, the NRMs defined in 3GPP TS 28.623 [6], TS 28.709 [7] and TS 28.706 [8] shall be used.

Annex A (informative):  
Change history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2017-06 | SA#76 | SP-170475 |  |  |  | Presented for information and approval | 1.0.0 |
| 2017-06 | SA#76 |  |  |  |  | Upgrade to change control version | 14.0.0 |
| 2017-08 | SA#80 | SP-180417 | 0001 | 1 | B | Scope extension to cover RAN | 15.0.0 |
| 2020-07 | - | - | - | - | - | Update to Rel-16 version (MCC) | **16.0.0** |