**3GPP TSG-CT WG3 Meeting #111eC3-204369**

**E-Meeting, 19th – 28th August 2020**  (Revision of C3-204162)

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **29.594** | **CR** | **0057** | **rev** | **1** | **Current version:** | **15.6.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | Nchf\_SpendingLimitControl Service support of interworking |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | 5GS\_Ph1-CT |  | ***Date:*** | 2020-08-25 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-15 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)Rel-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | The 5GS and EPS interworking is supported in stage 2 from R15. To keep consistency, it’s proposed to also specify interworking support of Nchf\_SpendingLimitControl Service in stage 3. |
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| ***Summary of change:*** | Introduction of 5GS and EPS interwork scenario support. |
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| ***Consequences if not approved:*** | The Nchf\_SpendingLimitControl Service support for interworking is not available in stage 3.  |
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| ***Clauses affected:*** | 2, Anex X(new) |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** | This CR does not impact the OpenAPI file of this specification. |
|  |  |
| ***This CR's revision history:*** |  |

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| **First change** |

# 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 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[5] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[6] 3GPP TS 23.503: "Policy and Charging Control Framework for the 5G System; Stage 2".

[7] 3GPP TS 32.240: "Charging architecture and principles; Stage 2".

[8] IETF RFC 7540: "Hypertext Transfer Protocol Version 2 (HTTP/2)".

[9] OpenAPI: "OpenAPI 3.0.0 Specification", <https://github.com/OAI/OpenAPI-Specification/blob/master/versions/3.0.0.md>.

[10] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[11] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces".

[12] 3GPP TS 29.513: "5G System; Policy and Charging Control signalling flows and QoS parameter mapping; Stage 3".

[13] IETF RFC 7807: "Problem Details for HTTP APIs".

[14] 3GPP TS 33.501: "Security architecture and procedures for 5G system".

[15] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".

[16] 3GPP TS 29.510: "5G System; Network Function Repository Services; Stage 3".

[17] 3GPP TR 21.900: "Technical Specification Group working methods".

[X] 3GPP TS 29.512: "5G System; Session Management Policy Control Service; Stage 3".

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| **Next change** |

Annex X (normative):
5GC and EPC interworking scenario support

# X.1 Scope

This annex defines procedures for the Nchf\_SpendingLimitControl service for 5GC and EPC interworking scenarios specified in clause B.1 of 3GPP TS 29.512 [x].

# X.2 Nchf\_SpendingLimitControl Service

## X.2.1 Service Description

### X.2.1.1 Overview

The overview in subclause 4.1.1 applies.

### X.2.1.2 Service Architecture

The architecture in subclause 4.1.2 applies.

# X.3 Service Operation

## X.3.1 Introduction

The service operations defined in subclause 4.2 shall be applicable.

## X.3.2 Nchf\_SpendingLimitControl\_Subscribe Service Operation

Subclause 4.2.2.2 and subsclause 4.2.2.3 are applied with the differences that the PCF shall include (if available) in SpendingLimitContext data structure:

- the IMSI of the user within the "supi" attribute;

- the MSISDN of the user within the "gpsi" attribute;

## X.3.3 Nchf\_SpendingLimitControl\_Unsubscribe Service Operation

Subclause 4.2.3 applies.

## X.3.4 Nchf\_SpendingLimitControl\_Notify Service Operation

Subclause 4.2.4 applies.

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| **End of change** |