**3GPP TSG-CT WG1 Meeting #141eC1-232153**

**Online 17– 21 April 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** |  | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
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| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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 can be 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Clause 4.3.1 in 3GPP TS 23.586 states the following:  *In addition to the functions defined in TS 23.287 [6] and TS 23.304 [7], the UE may support the following functions:*  *- Reporting the following Ranging/SL Positioning capabilities to 5GC over the N1 reference point:*  *- Capability of supporting Ranging/SL Positioning over PC5;*  *NOTE: Based on Ranging/SL Positioning control, a UE capable of Ranging/SL Positioning may take different roles in the operation, e.g. Target UE, Reference UE, Located UE, Positioning Server UE, Positioning Client UE.*  *- Procedures for Ranging/SL Positioning over PC5;*  *- Procedures to Network assisted SL Positioning;*  *- Procedures to Ranging/SL Positioning service exposure;*  *- Indicating UE Policy Provisioning Request in UE Policy Container for UE triggered Ranging/SL Positioning Policy provisioning, which requests one or multiple types of policies/parameters as listed below:*  *- Policy/parameters for Ranging/SL Positioning over PC5;*  *- Policy/parameters for Located UE;*  *- Policy/parameters for Target UE in addition to the functions defined in TS 23.273 [8] clause 4.3.5;*  *- Policy/parameters for SL Positioning Client UE;*  *- Policy/parameters for SL Positioning Server UE;*  *- Receiving the Ranging/SL Positioning Policy from 5GC over N1 reference point.*  The above indicates that there is a need to define UE policies for Rangin/SL Positioning policy in TS 24.514 and to have reference for Rangin/SL Positioning policy in TS 24.526. | | | | | | | | |
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| ***Summary of change:*** | | 1. Add TS 24.514 in the “References”. 2. Specify that UE policies for Ranging/SL Positioning policy are specified in 3GPP TS 24.514. | | | | | | | | |
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| ***Consequences if not approved:*** | | Reference to UE policies for Ranging/SL Positioning policy is missing. | | | | | | | | |
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| ***Clauses affected:*** | | 2, 3.2, 4.1 | | | | | | | | |
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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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\*\* 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 23.503: " Policy and Charging Control Framework for the 5G System; Stage 2".

[3] 3GPP TS 24.502: "Access to the 3GPP 5G Core Network (5GCN) via Non-3GPP Access Networks (N3AN); Stage 3".

[4] 3GPP TS 23.003: "Numbering, addressing and identification".

[5] 3GPP TS 25.331: "Radio Resource Control (RRC); Protocol Specification".

[6] Void

[6A] 3GPP TS 36.413: "Evolved Universal Terrestrial Radio Access (E-UTRA); S1 Application Protocol (S1AP)".

[7] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".

[8] IEEE Std 802.11™-2016: "Information Technology- Telecommunications and information exchange between systems-Local and metropolitan area networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications".

[9] Wi-Fi Alliance: "Hotspot 2.0 (Release 2) Technical Specification, version 1.0.0", 2014-08-08.

[10] ITU-T Recommendation E.212: "The international identification plan for public networks and subscriptions", 2016-09-23.

[11] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

[12] IETF RFC 1035: "Domain names - implementation and specification".

[13] ISO 8601:2004: "Data elements and interchange formats -- Information interchange -- Representation of dates and times".

[14] 3GPP TS 38.413: "NG-RAN; NG Application Protocol (NGAP)".

[15] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[16] IETF RFC 4122: "A Universally Unique IDentifier (UUID) URN Namespace".

[17] IETF RFC 5905: "Network Time Protocol Version 4: Protocol and Algorithms Specification".

[18] 3GPP TS 24.588: "Vehicle-to-Everything (V2X) services in 5G System (5GS); User Equipment (UE) policies; Stage 3".

[18A] 3GPP TS 24.555: "Proximity-services (ProSe) in 5G System (5GS); User Equipment (UE) policies; Stage 3".

[19] IEEE 1003.1-2004, Part 1: Base Definitions.

[20] IEEE Std 802.1Q-2018: "IEEE Standard for Local and metropolitan area networks--Bridges and Bridged Networks".

[21] 3GPP TS 24.554: "Proximity-services (ProSe) in 5G System (5GS) protocol aspects; Stage 3".

[22] 3GPP TS 24.193: "Access Traffic Steering, Switching and Splitting; Stage 3".

[XX] 3GPP TS 24.514: "Ranging based services and sidelink positioning in 5G system(5GS); Stage 3".

\*\*\*\*\* Next change \*\*\*\*\*

## 3.2 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].

5GCN 5G Core Network

5GS 5G System

ANDSP Access Network Discovery and Selection Policy

DNN Data Network Name

ePDG evolved Packet Data Gateway

FQDN Fully Qualified Domain Name

H-PCF A PCF in the HPLMN

IMS IP Multimedia Subsystem

LADN Local Area Data Network

MCC Mobile Country Code

ME Mobile Equipment

MMS Multimedia Messaging Service

MNC Mobile Network Code

N3AN Non-3GPP Access Network

N3IWF Non-3GPP InterWorking Function

OS Operating System

PCF Policy Control Function

ProSeP 5G ProSe Policy

RSLPP Ranging and Sidelink Positioning Policy

RSN Redundancy Sequence Number

S-NSSAI Single Network Slice Selection Assistance Information

SSC Session and Service Continuity

SUPI Subscriber Permanent Identifier

SUPL Secure User Plane Location

TNAN Trusted Non-3GPP Access Network

TNGF Trusted Non-3GPP Gateway Function

URSP UE Route Selection Policy

USIM User Services Identity Module

V-PCF A PCF in the VPLMN

V2XP V2X Policy

WLANSP WLAN Selection Policy

\*\*\*\*\* Next change \*\*\*\*\*

## 4.1 Overview

The UE policies for 5GS include:

- UE route selection policy (URSP)(see clause 4.2);

- Access network discovery and selection policy (ANDSP)(see clause 4.3);

- V2X policy (V2XP);

- 5G ProSe policy (ProSeP); and

- Ranging and sidelink positioning policy (RSLPP).

The UE policies can be delivered from the PCF to the UE. The UE policy delivery procedure is specified in 3GPP TS 24.501 [11].

The UE policies can also be pre-configured in the UE. The pre-configured policy shall be applied by the UE only when the UE has not received the same type of policy from the PCF. The implementation of pre-configured UE policies is out of scope of this specification.

The UE policies can be delivered from the PCF to the 5G-RG or a W-AGF acting on behalf of the FN-RG. The UE policy delivery service is specified in 3GPP TS 24.501 [11]. These UE policies include the UE route selection policy (URSP) (see clause 4.2).

The UE policies can also be pre-configured in the 5G-RG or a W-AGF acting on behalf of the FN-RG. The pre-configured policy shall be applied by the 5G-RG or a W-AGF acting on behalf of the FN-RG only when the 5G-RG or a W-AGF acting on behalf of the FN-RG has not received the same type of policy from the PCF. The implementation of pre-configured UE policies is out of scope of this specification.

The UE policies for V2X (V2XP) are specified in 3GPP TS 24.588 [18].

The UE policies for 5G ProSe policy (ProSeP) are specified in 3GPP TS 24.555 [18A].

The UE policies for ranging and sidelink positioning (RSLPP) are specified in 3GPP TS 24.514 [XX].

\*\*\*\*\* End of changes \*\*\*\*\*