**3GPP TSG-CT WG1 Meeting #130-eC1-21xxxx was C1-212955 was C1-212476**

**Electronic meeting, 20-28 May 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **3110** | **rev** | **3** | **Current version:** | **17.2.1** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network | **x** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | UE ProSe policy transmission | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CATT, ZTE, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_ProSe | | | | |  | ***Date:*** | | | 2021-05-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-12 (Release 12) Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | UE ProSe policy refers to the ProSe configuration parameters that originate from PCF, configured to UE and used by the UE to perform ProSe Direct Discovery, ProSe Direct Communication, ProSe usage reporting for charging, and ProSe path selection between Uu and PC5 reference point.  In subclause 6.2.2 and 6.2.4 of TS 23.304, PCF initiated and UE initiated UE ProSe policy transmission procedures are proposed, which is similar with UE policy, ANDSF policy and V2X policy.  So it is needed to specify the UE ProSe policy and transmission procedure in 5GC. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Define ProSe policy. 2. Sepecify the transmission procedure of UE ProSe policy. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Lack of the description on the UE ProSe policy and it’s transmission. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 3.2, D.1.1, D.3, D.6.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Rev2:  Change the abbrevation of UE ProSe Policy from “PSP” to “ProSeP” to align with SA2 and CT3’s description. | | | | | | | | |

\*\*\*\*\* 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".

[1A] 3GPP TS 22.011: "Service accessibility".

[2] 3GPP TS 22.101: "Service aspects; Service principles".

[3] 3GPP TS 22.261: "Service requirements for the 5G system; Stage 1".

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

[4A] 3GPP TS 23.040: "Technical realization of Short Message Service (SMS)".

[5] 3GPP TS 23.122: "Non-Access-Stratum functions related to Mobile Station (MS) in idle mode".

[6] 3GPP TS 23.167: "IP Multimedia Subsystem (IMS) emergency sessions".

[6A] 3GPP TS 23.216: "Single Radio Voice Call Continuity (SRVCC); Stage 2".

[6B] 3GPP TS 23.273: "5G System (5GS) Location Services (LCS); Stage 2".

[6C] 3GPP TS 23.287: "Architecture enhancements for 5G System (5GS) to support Vehicle-to-Everything (V2X) services".

[6D] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G System (5GS)".

[7] 3GPP TS 23.401: "GPRS enhancements for E-UTRAN access".

[8] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[9] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[10] 3GPP TS 23.503: "Policy and Charging Control Framework for the 5G System; Stage 2".

[11] 3GPP TS 24.007: "Mobile radio interface signalling layer 3; General aspects".

[12] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".

[13] 3GPP TS 24.011: "Point-to-Point Short Message Service (SMS) support on mobile radio interface".

[13A] 3GPP TS 24.080: "Mobile radio interface layer 3 Supplementary services specification; Formats and coding".

[13B] 3GPP TS 24.193: "Access Traffic Steering, Switching and Splitting; Stage 3".

[14] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[14A] 3GPP TS 24.250: "Protocol for Reliable Data Service; Stage 3".

[15] 3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3".

[16] 3GPP TS 24.302: "Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks; Stage 3"

[17] 3GPP TS 24.368: "Non-Access Stratum (NAS) configuration Management Object (MO)".

[18] 3GPP TS 24.502: "Access to the 3GPP 5G System (5GS) via non-3GPP access networks; Stage 3".

[19] 3GPP TS 24.526: "UE policies for 5G System (5GS); Stage 3".

[19A] 3GPP TS 24.535: "Device-Side Time-Sensitive Networking (TSN) Translator (DS-TT) to Network-Side TSN Translator (NW-TT) protocol aspects; Stage 3".

[19B] 3GPP TS 24.587: "Vehicle-to-Everything (V2X) services in 5G System (5GS); Protocol aspects; Stage 3"

[19C] 3GPP TS 24.588: "Vehicle-to-Everything (V2X) services in 5G System (5GS); User Equipment (UE) policies; Stage 3"

[19D] 3GPP TS 24.519: "Time-Sensitive Networking (TSN) Application Function (AF) to Device-Side TSN Translator (DS-TT) and Network-Side TSN Translator (NW-TT) protocol aspects; Stage 3".

[19F] 3GPP TS 24.555: "Proximity-services (ProSe) in 5G System (5GS); User Equipment (UE) policies; Stage 3". [20] 3GPP TS 24.623: "Extensive Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services".

[20AA] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[20A] 3GPP TS 29.502: "5G System; Session Management Services; Stage 3".

[20AB] 3GPP TS 29.503: "5G System; Unified Data Management Services; Stage 3".

[20B] 3GPP TS 29.518: "5G System; Access and Mobility Management Services; Stage 3".

[21] 3GPP TS 29.525: "5G System; UE Policy Control Service; Stage 3".

[21A] 3GPP TS 29.526: "5G System; Network Slice-Specific Authentication and Authorization (NSSAA) services; Stage 3".

[22] 3GPP TS 31.102: "Characteristics of the Universal Subscriber Identity Module (USIM) application".

[22A] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".

[22B] 3GPP TS 31.115: "Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications".

[23] 3GPP TS 33.102: "3G security; Security architecture".

[23A] 3GPP TS 33.401: "3GPP System Architecture Evolution; Security architecture".

[24] 3GPP TS 33.501: "Security architecture and procedures for 5G System".

[24A] 3GPP TS 33.535: "Authentication and Key Management for Applications (AKMA) based on 3GPP credentials in the 5G System (5GS)".

[25] 3GPP TS 36.323: "NR; Packet Data Convergence Protocol (PDCP) specification".

[25A] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC) protocol specification".

[25B] 3GPP TS 36.300: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description".

[25C] 3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode".

[25D] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".

[25E] 3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification".

[26] 3GPP TS 36.355: "Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)".

[27] 3GPP TS 38.300: "NR; NR and NG-RAN Overall Description; Stage 2".

[28] 3GPP TS 38.304: "New Generation Radio Access Network; User Equipment (UE) procedures in Idle mode".

[29] 3GPP TS 38.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification".

[30] 3GPP TS 38.331: "NR; Radio Resource Control (RRC); Protocol Specification".

[31] 3GPP TS 38.413: "NG Radio Access Network (NG-RAN); NG Application Protocol (NGAP)".

[31A] IEEE Std 802.3™-2018: "Ethernet".

[31AA] 3GPP TS 38.509: "Special conformance testing functions for User Equipment (UE)".

[32] IETF RFC 768: "User Datagram Protocol".

[33] IETF RFC 793: "Transmission Control Protocol."

[33A] IETF RFC 3095: "RObust Header Compression (ROHC): Framework and four profiles: RTP, UDP, ESP and uncompressed".

[33B] Void.

[33C] Void.

[33D] IETF RFC 8415: "Dynamic Host Configuration Protocol for IPv6 (DHCPv6)".

[34] IETF RFC 3748: "Extensible Authentication Protocol (EAP)".

[34A] IETF RFC 3843: "RObust Header Compression (ROHC): A Compression Profile for IP".

[35] Void.

[35A] IETF RFC 4122: "A Universally Unique IDentifier (UUID) URN Namespace".

[36] IETF RFC 4191: "Default Router Preferences and More-Specific Routes".

[37] IETF RFC 7542: "The Network Access Identifier".

[38] IETF RFC 4303: "IP Encapsulating Security Payload (ESP)".

[38A] IETF RFC 4815: "RObust Header Compression (ROHC): Corrections and Clarifications to RFC 3095".

[38B] IETF RFC 4861: "Neighbor Discovery for IP version 6 (IPv6)".

[39] IETF RFC 4862: "IPv6 Stateless Address Autoconfiguration".

[39A] IETF RFC 5225: "RObust Header Compression (ROHC) Version 2: Profiles for RTP, UDP, IP, ESP and UDP Lite".

[39B] IETF RFC 5795: "The RObust Header Compression (ROHC) Framework".

[40] IETF RFC 5448: "Improved Extensible Authentication Protocol Method for 3rd Generation Authentication and Key Agreement (EAP-AKA')".

[40A] IETF RFC 6603: "Prefix Exclude Option for DHCPv6-based Prefix Delegation".

[40B] IETF RFC 6846: "RObust Header Compression (ROHC): A Profile for TCP/IP (ROHC-TCP)".

[41] IETF RFC 7296: "Internet Key Exchange Protocol Version 2 (IKEv2)".

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

[43] IEEE Std 802-2014: "IEEE Standard for Local and Metropolitan Area Networks: Overview and Architecture" (30 June 2014).

[43A] IEEE Std 802.1AS-2020: "IEEE Standard for Local and metropolitan area networks--Timing and Synchronization for Time-Sensitive Applications".

[43B] IEEE Std 1588™-2008: "IEEE Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems".

[43C] Void.

[43D] Void.

[43E] Void.

[44] Void.

[45] Void.

[46] Void.

[47] Void.

[48] IEEE "Guidelines for Use of Extended Unique Identifier (EUI), Organizationally Unique Identifier (OUI), and Company ID (CID)".

[49] BBF TR-069: "CPE WAN Management Protocol".

[50] BBF TR-369: "User Services Platform (USP)".

[51] 3GPP TS 37.340: "Evolved Universal Terrestrial Radio Access (E-UTRA) and NR; Multi-connectivity; Stage 2".

\*\*\*\*\* 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].

4G-GUTI 4G-Globally Unique Temporary Identifier

5GCN 5G Core Network

5G-GUTI 5G-Globally Unique Temporary Identifier

5GMM 5GS Mobility Management

5G-RG 5G Residential Gateway

5G-BRG 5G Broadband Residential Gateway

5G-CRG 5G Cable Residential Gateway

5GS 5G System

5GSM 5GS Session Management

5G-S-TMSI 5G S-Temporary Mobile Subscription Identifier

5G-TMSI 5G Temporary Mobile Subscription Identifier

5QI 5G QoS Identifier

ACS Auto-Configuration Server

AKA Authentication and Key Agreement

AKMA Authentication and Key Management for Applications

A-KID AKMA Key Identifier

A-TID AKMA Temporary Identifier

AMBR Aggregate Maximum Bit Rate

AMF Access and Mobility Management Function

APN Access Point Name

ATSSS Access Traffic Steering, Switching and Splitting

AUSF Authentication Server Function

CAG Closed access group

CHAP Challenge Handshake Authentication Protocol

DDX Downlink Data Expected

DL Downlink

DN Data Network

DNN Data Network Name

eDRX Extended DRX cycle

DS-TT Device-Side TSN Translator

EUI Extended Unique Identifier

E-UTRAN Evolved Universal Terrestrial Radio Access Network

EAP-AKA' Improved Extensible Authentication Protocol method for 3rd generation Authentication and Key Agreement

ECIES Elliptic Curve Integrated Encryption Scheme

EPD Extended Protocol Discriminator

EMM EPS Mobility Management

EPC Evolved Packet Core Network

EPS Evolved Packet System

ESM EPS Session Management

FN-RG Fixed Network RG

FN-BRG Fixed Network Broadband RG

FN-CRG Fixed Network Cable RG

Gbps Gigabits per second

GFBR Guaranteed Flow Bit Rate

GUAMI Globally Unique AMF Identifier

IAB Integrated access and backhaul

IMEI International Mobile station Equipment Identity

IMEISV International Mobile station Equipment Identity and Software Version number

IMSI International Mobile Subscriber Identity

IP-CAN IP-Connectivity Access Network

KSI Key Set Identifier

LADN Local Area Data Network

LCS LoCation Services

LMF Location Management Function

LPP LTE Positioning Protocol

MAC Message Authentication Code

MA PDU Multi-Access PDU

Mbps Megabits per second

MFBR Maximum Flow Bit Rate

MICO Mobile Initiated Connection Only

N3IWF Non-3GPP Inter-Working Function

N5CW Non-5G-Capable over WLAN

N5GC Non-5G Capable

NAI Network Access Identifier

NITZ Network Identity and Time Zone

NR New Radio

ngKSI Key Set Identifier for Next Generation Radio Access Network

NPN Non-public network

NSSAA Network slice-specific authentication and authorization

NSSAAF NSSAA Function

NSSAI Network Slice Selection Assistance Information

OS Operating System

OS Id OS Identity

PAP Password Authentication Protocol

PCO Protocol Configuration Option

PEI Permanent Equipment Identifier

PNI-NPN Public Network Integrated Non-Public Network

PTI Procedure Transaction Identity

QFI QoS Flow Identifier

QoS Quality of Service

QRI QoS Rule Identifier

RACS Radio Capability Signalling Optimisation

(R)AN (Radio) Access Network

RFSP RAT Frequency Selection Priority

RG Residential Gateway

RPLMN Registered PLMN

RQA Reflective QoS Attribute

RQI Reflective QoS Indication

RSNPN Registered SNPN

S-NSSAI Single NSSAI

SA Security Association

SDF Service Data Flow

SMF Session Management Function

SGC Service Gap Control

SNN Serving Network Name

SNPN Stand-alone Non-Public Network

SOR Steering of Roaming

SUCI Subscription Concealed Identifier

SUPI Subscription Permanent Identifier

TA Tracking Area

TAC Tracking Area Code

TAI Tracking Area Identity

Tbps Terabits per second

TNGF Trusted Non-3GPP Gateway Function

TSC Time Sensitive Communication

TWIF Trusted WLAN Interworking Function

TSN Time-Sensitive Networking

UDM Unified Data Management

UL Uplink

UPDS UE policy delivery service

UPF User Plane Function

UPSC UE Policy Section Code

UPSI UE Policy Section Identifier

URN Uniform Resource Name

URSP UE Route Selection Policy

V2X Vehicle-to-Everything

V2XP V2X policy

W-AGF Wireline Access Gateway Function

WLAN Wireless Local Area Network

WUS Wake-up signal

ProSeP 5G ProSe policy

\*\*\*\*\* change \*\*\*\*\*

### D.1.1 Overview

The PCF may provide the UE with one or more UE policies using the network-requested UE policy management procedure. The UE provides the PCF with a list of one or more stored UE policy section identifiers (UPSIs), and the PCF provides each UE policy using one or more UE policy sections, each identified by a UPSI. The UPSI is composed of two parts:

a) a PLMN ID part containing:

1) the PLMN ID for the PLMN; or

2) the PLMN ID part of the SNPN identity for the SNPN;

of the PCF which provides the UE policies; and

b) a UE policy section code (UPSC) containing a value assigned by the PCF.

The UE processes the UE policy sections, each identified by the UPSI, received from the PCF and informs the PCF of the result.

The UE provides the PCF with the UE policy related capabilities such as the UE's support for ANDSP and the UE's OS Id.

The UE can also request the PCF to provide V2XP as specified in 3GPP TS 24.587 [19B].

The UE can also request the PCF to provide ProSeP as specified in 3GPP TS 24.555 [19F].

\*\*\*\*\* change \*\*\*\*\*

## D.3 UE policy re-assembly at the UE

When the UE needs to apply ANDSP as specified in 3GPP TS 24.502 [18], the UE shall consider all UE policy parts with ANDSP contents currently stored at the UE.

When the UE needs to apply URSP as specified in 3GPP TS 24.526 [19], the UE shall consider all UE policy parts with URSP contents currently stored at the UE.

When the UE needs to apply V2XP as specified in 3GPP TS 24.588 [19C], the UE shall consider all UE policy parts with V2XP contents currently stored at the UE.

When the UE needs to apply ProSeP as specified in 3GPP TS 24.555 [19F], the UE shall consider all UE policy parts with ProSeP contents currently stored at the UE.

\*\*\*\*\* change \*\*\*\*\*

### D.6.2 UE policy section management list

The purpose of the UE policy section management list information element is to transfer from the PCF to the UE a list of instructions to be performed at the UE for management of UE policy section stored at the UE.

The UE policy section management list information element is coded as shown in figure D.6.2.1, figure D.6.2.2, figure D.6.2.3, figure D.6.2.4, figure D.6.2.5, figure D.6.2.6, figure D.6.2.7 and table D.6.2.1.

The UE policy section management list information element has a minimum length of 12 octets and a maximum length of 65534 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| UE policy section management list IEI | | | | | | | | octet 1 |
| Length of UE policy section management list contents | | | | | | | | octet 2  octet 3 |
| UE policy section management list contents | | | | | | | | octet 4  octet z |

Figure D.6.2.1: UE policy section management list information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| UE policy section management sublist (PLMN 1) | | | | | | | | octet 4  octet a |
| UE policy section management sublist (PLMN 2) | | | | | | | | octet a+1  octet b |
| … | | | | | | | | octet b+1  …  octet c |
| UE policy section management sublist (PLMN N) | | | | | | | | octet c+1  octet z |

Figure D.6.2.2: UE policy section management list contents

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of UE policy section management sublist | | | | | | | | octet d  octet d+1 |
|  | | | | MCC digit 1 | | | | octet d+2 |
| MCC digit 2 | | | |
|  | | | | MCC digit 3 | | | | octet d+3 |
| MNC digit 3 | | | |
|  | | | | MNC digit 1 | | | | octet d+4 |
| MNC digit 2 | | | |
| UE policy section management sublist contents | | | | | | | | octet d+5  octet y |

Figure D.6.2.3: UE policy section management sublist

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Instruction 1 | | | | | | | | octet d+5  octet e |
| Instruction 2 | | | | | | | | octet e+1  octet f |
| … | | | | | | | | octet f+1  …  octet g |
| Instruction N | | | | | | | | octet g+1  octet e |

Figure D.6.2.4: UE policy section management sublist contents

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Instruction contents length | | | | | | | | octet d+5  octet d+6 |
| UPSC | | | | | | | | octet d+7  octet d+8 |
| UE policy section contents | | | | | | | | octet d+9  octet k |

Figure D.6.2.5: Instruction

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| UE policy part 1 | | | | | | | | octet l  octet m |
| UE policy part 2 | | | | | | | | octet m+1  octet n |
| … | | | | | | | | octet n+1  …  octet o |
| UE policy part N | | | | | | | | octet o+1  octet p |

Figure D.6.2.6: UE policy section contents

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| UE policy part contents length | | | | | | | | octet q  octet q+1 |
| 0 | 0 | 0 | 0 | UE policy part type | | | | octet q+2 |
| Spare | | | |
| UE policy part contents | | | | | | | | octet q+3  octet r |

Figure D.6.2.7: UE policy part

Table D.6.2.1: UE policy section management list information element

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Value part of the UE policy section management list information element (octets 4 to z) | | | | | |
|  | | | | | |
| The value part of the UE policy section management list information element consists of one or several UE policy section management sublists. | | | | | |
|  | | | | | |
| UE policy section management sublist: | | | | | |
|  | | | | | |
| Length of UE policy section management sublist (octets d to d+1) | | | | | |
|  | | | | | |
| This field contains the binary encoding of the length of the UE policy section management sublist in units of octets. | | | | | |
|  | | | | | |
| MCC, Mobile country code (octet d+2, and bits 4 to 1 of octet d+3) | | | | | |
|  | | | | | |
| The MCC field is coded as in ITU-T Recommendation E.212 [42], annex A. | | | | | |
|  | | | | | |
| MNC, Mobile network code (bits 8 to 5 of octet d+3, and octet d+4) | | | | | |
|  | | | | | |
| The coding of this field is the responsibility of each administration but BCD coding shall be used. The MNC shall consist of 2 or 3 digits. If a network operator decides to use only two digits in the MNC, MNC digit 3 shall be coded as "1111". | | | | | |
|  | | | | | |
| UE policy section management sublist contents (octets d+5 to y) | | | | | |
|  | | | | | |
| The UE policy section management sublist contents consist of one or several instructions. | | | | | |
|  | | | | | |
| Instruction: | | | | | |
|  | | | | | |
| Instruction contents length (octets d+5 to d+6) | | | | | |
|  | | | | | |
| This field contains the binary encoding of the instruction contents length in units of octets. | | | | | |
|  | | | | | |
| UPSC (octets d+7 to d+8) | | | | | |
|  | | | | | |
| This field contains the binary encoding of the UPSC. The value of the UPSC is set by the PCF. | | | | | |
|  | | | | | |
| UE policy section contents (octets d+9 to k) | | | | | |
|  | | | | | |
| The UE policy section contents consist of one or several UE policy parts. | | | | | |
|  | | | | | |
| UE policy part: | | | | | |
|  | | | | | |
| UE policy part contents length (octets q to q+1) | | | | | |
|  | | | | | |
| This field contains the binary encoding of the UE policy part contents length in units of octets. | | | | | |
|  | | | | | |
| UE policy part type (bits 4 to 1 of octet q+2) | | | | | |
| Bits | | | | | |
| 4 | 3 | 2 | 1 |  |
| 0 | 0 | 0 | 0 | Reserved |
| 0 | 0 | 0 | 1 | URSP |
| 0 | 0 | 1 | 0 | ANDSP |
| 0 | 0 | 1 | 1 | V2XP |
| 0 | 1 | 0 | 0 | ProSeP |
| All other values are reserved. | | | | | |
|  | | | | | |
| Bits 8 to 5 of octet q+2 are spare and shall be coded as zero. | | | | | |
|  | | | | | |
| UE policy part contents | | | | | |
|  | | | | | |
| This field contains a UE policy part encoded as specified in 3GPP TS 24.526 [19] for the UE policy part type field set to "URSP" or "ANDSP", in 3GPP TS 24.588 [19C] for the UE policy part type field set to "V2XP" and in 3GPP TS 24.555 [19F] for the UE policy part type field set to "ProSeP" respectively. | | | | | |
|  | | | | | |

\*\*\*\*\* change \*\*\*\*\*