**3GPP TSG-CT WG6 Meeting #108eC6-21xxxx**

**E-Meeting, 16th – 19th November 2021 (Revision of C6-210327)**

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| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **31.102** | **CR** | **0929** | **rev** | **1** | **Current version:** | **17.3.0** |  |
|  |
| *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 | **X** | ME |  | Radio Access Network |  | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | 5G ProSe configuration related serives and files |
|  |  |
| ***Source to WG:*** | OPPO, CATT |
| ***Source to TSG:*** | CT6 |
|  |  |
| ***Work item code:*** | 5G\_ProSe |  | ***Date:*** | 2021-10-21 |
|  |  |  |  |  |
| ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | In stage 2 TS 23.304, it is specified that the 5G ProSe policy can be configured in UICC, as blow:In 5GS, the parameters for 5G ProSe Direct Discovery, 5G ProSe Direct Communication, and 5G ProSe UE-to-Network Relay service may be made available to the UE in following ways:- provisioned in the ME; or- configured in the UICC; or- provisioned in the ME and configured in the UICC; or- provided or updated by the ProSe Application Server via PCF and/or PC1 reference point; or- provided or updated by the PCF to the UE.Therefore, the 5G ProSe related configuration should be added as EFs.The 5G ProSe policy is separated to the parameters for direct discovery, direct communication, UE-to-Network relay UE, remote UE and usage reporting, as specified in TS 24.555. Also, the CT1 TS 24.555 has specified the coding of 5G ProSe policy for direct discovery and direct communication, UE-to-Network relay UE and remote UE.Since the 5G ProSe is a new feature only for 5G, the EF is added as a new DF. |
|  |  |
| ***Summary of change:*** | Add EFs for 5G ProSe policy configuration parameters for direct discovery, direct communication, UE-to-Network relay UE, remote UE. |
|  |  |
| ***Consequences if not approved:*** | The stage 2 requirements cannot be satisfied. |
|  |  |
| ***Clauses affected:*** | 2, 4.2.8, 4.3, 4.4.x(new), 4.4.x.1(new), 4.4.x.2(new), 4.4.x.3(new), 4.4.x.4(new), 4.4.x.5(new), 4.4.x.6(new), 4.4.x.7(new), 5.Y(new), 5.Y.1(new), 5.Y.2(new), 5.Y.3(new), 5.Y.4(new), 5.Y.5(new) |
|  |  |
|  | **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 TS 21.111: "USIM and IC Card Requirements".

[2] 3GPP TS 22.011: "Service accessibility".

[3] 3GPP TS 22.024: "Description of Charge Advice Information (CAI)".

[4] 3GPP TS 22.030: "Man‑Machine Interface (MMI) of the User Equipment (UE)".

[5] 3GPP TS 23.038: "Alphabets and language".

[6] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

[7] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".

[8] 3GPP TS 22.067: "enhanced Multi Level Precedence and Pre-emption service (eMLPP) ‑ Stage 1".

[9] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".

[10] 3GPP TS 24.011: "Point‑to‑Point (PP) Short Message Service (SMS) support on mobile radio interface".

[11] 3GPP TS 31.101: "UICC-Terminal Interface, Physical and Logical Characteristics".

[12] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".

[13] 3GPP TS 33.102: "3GPP Security; Security Architecture".

[14] 3GPP TS 33.103: "3GPP Security; Integration Guidelines".

[15] 3GPP TS 22.086: "Advice of charge (AoC) Supplementary Services ‑ Stage 1".

[16] 3GPP TS 23.041: "Technical realization of Cell Broadcast (CB)".

[17] 3GPP TS 02.07: "Mobile Stations (MS) features".

[18] 3GPP TS 51.011 Release 4: "Specification of the Subscriber Identity Module – Mobile Equipment (SIM – ME) interface".

[19] ISO 639 (1988): "Code for the representation of names of languages".

[20] ISO/IEC 7816‑4: "Integrated circuit cards, Part 4: Organization, security and commands for interchange".

[21] Void.

[22] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".

[23] 3GPP TS 23.073: "Support of Localised Service Area (SoLSA); Stage 2".

[24] 3GPP TS 22.101: "Service aspects; service principles".

[25] 3GPP TS 23.003: "Numbering, Addressing and Identification".

[26] Void.

[27] 3GPP TS 22.022: "Personalisation of Mobile Equipment (ME); Mobile functionality specification".

[28] 3GPP TS 44.018 "Mobile Interface Layer3 Specification, Radio Resource control protocol".

[29] 3GPP TS 23.022: "Functions related to Mobile Station (MS) in idle mode and group receive mode".

[30] 3GPP TS 23.057: "Mobile Execution Environment (MexE);Functional description; Stage 2".

[31] 3GPP TS 23.122: "NAS Functions related to Mobile Station (MS) in idle mode".

[32] Void.

[33] 3GPP TS 25.101: "UE Radio Transmission and Reception (FDD)".

[34] 3GPP TS 45.005: "Radio Transmission and Reception".

[35] ISO/IEC 8825-1 (2008): "Information technology – ASN.1 encoding rules : Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".

[36] 3GPP TS 23.097: "Multiple Subscriber Profile (MSP)".

[37] Void.

[38] 3GPP TS 23.140 Release 6: "Multimedia Messaging Service (MMS); Functional description; stage 2".

[39] ETSI TS 102 222 V7.1.0: "Administrative commands for telecommunications applications".

[40] 3GPP TS 24.234 Release 12: "3GPP System to WLAN Interworking; UE to Network protocols;Stage 3".

[41] 3GPP TS 33.234 Release 12: "3G Security; Wireless Local Area Network (WLAN) interworking security".

[42] 3GPP TS 33.220: "Generic Authentication Architecture (GAA); Generic bootstrapping architecture".

[43] 3GPP TS 33.246: "Security of Multimedia Broadcast/Multicast Service".

[44] 3GPP TS 43.020: "Technical Specification Group Services and system Aspects; Security related network functions"

[45] 3GPP2 X.S0016-000-A v1.0: "3GPP2 Multimedia Messaging System MMS Specification Overview, Revision A"

[46] 3GPP TS 43.068: "Technical Specification Group Core Network; Voice Group Call Service (VGCS); Stage 2".

[47] 3GPP TS 33.110: "Key establishment between a Universal Integrated Circuit Card (UICC) and a terminal".

[48] IETF RFC 3629 (2003): "UTF-8, a transformation format of ISO 10646".

[49] Open Mobile Alliance; OMA-TS-BCAST\_SvcCntProtection
URL: <http://www.openmobilealliance.org/>

[50] ETSI TS TS 102 483 V8.1.0: "UICC-Terminal interface; Internet Protocol connectivity between UICC and Terminal".

[51] 3GPP TS 24.301: "Technical Specification Group Core Network and Terminals; Non-Access-Stratum (NAS) protocol for Evolved Packet Systems (EPS): Stage 3".

[52] 3GPP TS 33.401: "3GPP System Architecture Evolution (SAE); Security architecture".

[53] 3GPP2 C.S0074-A v1.0: "UICC-Terminal Interface Physical and Logical Characteristics for cdma2000 Spread Spectrum Systems"

[54] 3GPP TS 22.220: "Service requirements for Home NodeBs and Home eNodeBs ".

[55] 3GPP TS 24.341: "Support of SMS over IP networks; Stage 3"

[56] IETF RFC 3261: "SIP: Session Initiation Protocol".

[57] IETF RFC 3629 (2003): "UTF-8, a transformation format of ISO 10646".

[58] 3GPP TS 24.285: "Allowed Closed Subscriber Group (CSG) list; Management Object (MO)"

[59] OMA Smartcard-Web-Server Approved Version 1.1 - 12 May 2009 (OMA‑TS‑Smartcard\_Web\_Server-V1\_1-20090512-A).[60] ISO/IEC 15948:2003: "Information technology - Computer graphics and image processing - Portable Network Graphics (PNG): Functional specification".

[61] Void.

[62] ETSI TS 101 220 : "Smart Cards; ETSI numbering system for telecommunication application providers".

[63] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3"

[64] 3GPP TS 31.103: "Characteristics of the IP Multimedia Services Identity Module (ISIM) application".

[65] 3GPP TS 24.368: "Non-Access Stratum (NAS) configuration Management Object (MO)".

[66] ETSI TS 102 484 V10.1.0: ''Smart Cards; Secure channel between a UICC and end-point terminal"

[67] ISO/IEC 7816-15:2004: "Identification cards -- Integrated circuit cards -- Part 15: Cryptographic information application"

[68] 3GPP TS 22.268: "Public Warning System (PWS) Requirements".

[69] 3GPP TS 23.401: "General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access".

[70] 3GPP TS 24.334: "Proximity-services (ProSe) User Equipment (UE) to Proximity-services (ProSe) Function Protocol aspects; Stage 3".

[71] 3GPP TS 24.333: "Proximity-services (ProSe) Management Objects (MO)"

[72] 3GPP TS 33.303: "Proximity-based Services (ProSe); Security aspects"

[73] 3GPP TS 23.303: "Proximity-based services (ProSe); Stage 2"

[74] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification"

[75] 3GPP TS 23.032: " Technical Specification Group Services and System Aspects; Universal Geographical Area Description (GAD)"

[76] 3GPP TS 33.187: "Security aspects of Machine-Type Communications (MTC) and other mobile data applications communications enhancements"

[77] 3GPP TS 32.277: "Proximity-based Services (ProSe) charging"

[78] 3GPP TS 23.682: "Technical Specification Group Services and System Aspects; Architecture enhancements to facilitate communications with packet data networks and applications"

[79] 3GPP TS 24.302: "Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks".

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

[81] 3GPP TS 24.105: "Application specific Congestion control for Data Communication (ACDC) Management Object (MO)".

[82] Void

[83] Void

[84] GSMA: "IMEI Allocation and Approval Process Version 9.0"

[85] 3GPP TS 36.306: "Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities"

[86] 3GPP TS 24.607: "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification"

[87] 3GPP TS 24.417: "Management Object (MO) for Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".

[88] 3GPP TS 24.167: "3GPP IMS Management Object (MO); Stage 3".

[89] 3GPP TS 24.483: "Mission Critical Services(MCS) Management Object (MO)".

[90] void

[91] 3GPP TS 24.117: "TV service configuration Management Object (MO)"

[92] 3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception".

[93] 3GPP TS 24.424: "Management Object (MO) for Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services (SS)".

[94] 3GPP TS 24.391: "Unstructured Supplementary Service Data (USSD) using IP Multimedia (IM) Core Network (CN) subsystem (IMS) Management Object (MO)".

[95] 3GPP TS 24.275: "Management Object (MO) for basic communication part of IMS multimedia telephony (MMTEL) communication service".

[96] 3GPP TS 24.368: "Non-Access Stratum (NAS) configuration Management Object (MO)".

[97] 3GPP TS 24.385: "V2X services Management Object (MO)".

[98] 3GPP TS 24.386: "User Equipment (UE) to V2X control function; protocol aspects ".

[99] 3GPP TS 26.346: " Technical Specification Group Services and System Aspects; Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs"[100] OMA-DDS-DM\_ConnMO-V1\_0-20081107-A: " Standardized Connectivity Management Objects".

[101] 3GPP TS 24.424: "Management Object (MO) for Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services (SS)".

[100] OMA-DDS-DM\_ConnMO-V1\_0-20081107-A: " Standardized Connectivity Management Objects".

[102] 3GPP TS 24.623: "Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services".

[103] OMA OMA-TS-XDM\_Core-V1\_1-20080627-A: "XML Document Management (XDM) Specification".

[104] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

[105] 3GPP TS 33.501: "Security architecture and procedures for 5G System".

[106] 3GPP TS 22.261: "Service requirements for the 5G system; Stage 1".

[107] IETF RFC 5480: "Elliptic Curve Cryptography Subject Public Key Information".

[108] IETF RFC 7748: "Elliptic Curves for Security".

[109] 3GPP TS 24.526: "User Equipment (UE) policies for 5G System (5GS); Stage 3".

[110] 3GPP TS 24.175: "Management Object (MO) for Multi-Device and Multi-Identity in IMS".

[111] 3GPP TS 24.174: "Support of Multi-Device and Multi-Identity in IMS; Stage 3".

[112] 3GPP TS 24.587: "Vehicle-to-Everything (V2X) services in 5G System (5GS); Protocol aspects; Stage 3".

[113] 3GPP TS 24.588: "Vehicle-to-Everything (V2X) services in 5G System (5GS); User Equipment (UE) policies; Stage 3".

[r24554] 3GPP TS 24.554: " Proximity-services (ProSe) in 5G System (5GS) protocol aspects; Stage 3".

[r24555] 3GPP TS 24.555: "Proximity-services (ProSe) in 5G System (5GS); User Equipment (UE) policies; Stage 3".

\* \* \* Second Change \* \* \* \*

### 4.2.8 EFUST (USIM Service Table)

This EF indicates which services are available. If a service is not indicated as available in the USIM, the ME shall not select this service.

|  |  |  |
| --- | --- | --- |
| Identifier: '6F38' | Structure: transparent | Mandatory |
| SFI: '04' |  |
| File size: X bytes, (X ≥ 1) | Update activity: low |
| Access Conditions: READ PIN UPDATE ADM DEACTIVATE ADM ACTIVATE ADM |
| Bytes | Description | M/O | Length |
| 1 | Services n1 to n8 | M | 1 byte |
| 2 | Services n9 to n16 | O | 1 byte |
| 3 | Services n17 to n24 | O | 1 byte |
| 4 | Services n25 to n32 | O | 1 byte |
| etc. |  |  |  |
| X | Services n(8X‑7) to n(8X) | O | 1 byte |

|  |  |  |
| --- | --- | --- |
| ‑Services |  |  |
|  Contents: | Service n°1: | Local Phone Book |
|  | Service n°2: | Fixed Dialling Numbers (FDN) |
|  | Service n°3: | Extension 2 |
|  | Service n°4: | Service Dialling Numbers (SDN) |
|  | Service n°5: | Extension3 |
|  | Service n°6: | Barred Dialling Numbers (BDN) |
|  | Service n°7: | Extension4 |
|  | Service n°8: | Outgoing Call Information (OCI and OCT) |
|  | Service n°9: | Incoming Call Information (ICI and ICT) |
|  | Service n°10: | Short Message Storage (SMS) |
|  | Service n°11: | Short Message Status Reports (SMSR) |
|  | Service n°12: | Short Message Service Parameters (SMSP) |
|  | Service n°13: | Advice of Charge (AoC) |
|  | Service n°14: | Capability Configuration Parameters 2 (CCP2) |
|  | Service n°15: | Cell Broadcast Message Identifier  |
|  | Service n°16: | Cell Broadcast Message Identifier Ranges  |
|  | Service n°17: | Group Identifier Level 1 |
|  | Service n°18: | Group Identifier Level 2 |
|  | Service n°19: | Service Provider Name |
|  | Service n°20: | User controlled PLMN selector with Access Technology |
|  | Service n°21: | MSISDN |
|  | Service n°22: | Image (IMG) |
|  | Service n°23: | Support of Localised Service Areas (SoLSA)  |
|  | Service n°24: | Enhanced Multi‑Level Precedence and Pre‑emption Service |
|  | Service n°25: | Automatic Answer for eMLPP |
|  | Service n°26: | RFU |
|  | Service n°27: | GSM Access |
|  | Service n°28: | Data download via SMS-PP |
|  | Service n°29: | Data download via SMS‑CB |
|  | Service n°30: | Call Control by USIM |
|  | Service n°31: | MO-SMS Control by USIM |
|  | Service n°32: | RUN AT COMMAND command |
|  | Service n°33: | shall be set to '1' |
|  | Service n°34: | Enabled Services Table |
|  | Service n°35: | APN Control List (ACL) |
|  | Service n°36: | Depersonalisation Control Keys |
|  | Service n°37: | Co-operative Network List |
|  | Service n°38: | GSM security context  |
|  | Service n°39: | CPBCCH Information |
|  | Service n°40: | Investigation Scan |
|  | Service n°41: | MexE |
|  | Service n°42: | Operator controlled PLMN selector with Access Technology |
|  | Service n°43: | HPLMN selector with Access Technology |
|  | Service n°44: | Extension 5 |
|  | Service n°45: | PLMN Network Name |
|  | Service n°46: | Operator PLMN List |
|  | Service n°47: | Mailbox Dialling Numbers  |
|  | Service n°48: | Message Waiting Indication Status |
|  | Service n°49: | Call Forwarding Indication Status |
|  | Service n°50: | Reserved and shall be ignored |
|  | Service n°51: | Service Provider Display Information |
|  | Service n°52 | Multimedia Messaging Service (MMS) |
|  | Service n°53 | Extension 8 |
|  | Service n°54 | Call control on GPRS by USIM |
|  | Service n°55 | MMS User Connectivity Parameters |
|  | Service n°56 | Network's indication of alerting in the MS (NIA) |
|  | Service n°57 | VGCS Group Identifier List (EFVGCS and EFVGCSS) |
|  | Service n°58 | VBS Group Identifier List (EFVBS and EFVBSS) |
|  | Service n°59 | Pseudonym |
|  | Service n°60 | User Controlled PLMN selector for I-WLAN access |
|  | Service n°61 | Operator Controlled PLMN selector for I-WLAN access |
|  | Service n°62 | User controlled WSID list |
|  | Service n°63 | Operator controlled WSID list |
|  | Service n°64 | VGCS security |
|  | Service n°65 | VBS security |
|  | Service n°66 | WLAN Reauthentication Identity |
|  | Service n°67 | Multimedia Messages Storage |
|  | Service n°68 | Generic Bootstrapping Architecture (GBA) |
|  | Service n°69 | MBMS security |
|  | Service n°70 | Data download via USSD and USSD application mode |
|  | Service n°71 | Equivalent HPLMN |
|  | Service n°72 | Additional TERMINAL PROFILE after UICC activation |
|  | Service n°73 | Equivalent HPLMN Presentation Indication |
|  | Service n°74 | Last RPLMN Selection Indication |
|  | Service n°75 | OMA BCAST Smart Card Profile |
|  | Service n°76 | GBA-based Local Key Establishment Mechanism |
|  | Service n°77 | Terminal Applications |
|  | Service n°78 | Service Provider Name Icon |
|  | Service n°79 | PLMN Network Name Icon |
|  | Service n°80 | Connectivity Parameters for USIM IP connections |
|  | Service n°81 | Home I-WLAN Specific Identifier List |
|  | Service n°82 | I-WLAN Equivalent HPLMN Presentation Indication |
|  | Service n°83 | I-WLAN HPLMN Priority Indication |
|  | Service n°84 | I-WLAN Last Registered PLMN |
|  | Service n°85 | EPS Mobility Management Information |
|  | Service n°86 | Allowed CSG Lists and corresponding indications |
|  | Service n°87 | Call control on EPS PDN connection by USIM |
|  | Service n°88 | HPLMN Direct Access |
|  | Service n°89 | eCall Data |
|  | Service n°90 | Operator CSG Lists and corresponding indications |
|  | Service n°91 | Support for SM-over-IP |
|  | Service n°92 | Support of CSG Display Control |
|  | Service n°93 | Communication Control for IMS by USIM |
|  | Service n°94 | Extended Terminal Applications |
|  | Service n°95 | Support of UICC access to IMS |
|  | Service n°96 | Non-Access Stratum configuration by USIM |
|  | Service n°97 | PWS configuration by USIM |
|  | Service n°98 | RFU |
|  | Service n°99 | URI support by UICC |
|  | Service n°100 | Extended EARFCN support |
|  | Service n°101 | ProSe |
|  | Service n°102 | USAT Application Pairing |
|  | Service n°103 | Media Type support |
|  | Service n°104 | IMS call disconnection cause |
|  | Service n°105 | URI support for MO SHORT MESSAGE CONTROL |
|  | Service n°106 | ePDG configuration Information support |
|  | Service n°107 | ePDG configuration Information configured |
|  | Service n°108 | ACDC support |
|  | Service n°109 | Mission Critical Services |
|  | Service n°110 | ePDG configuration Information for Emergency Service support |
|  | Service n°111 | ePDG configuration Information for Emergency Service configured |
|  | Service n°112 | eCall Data over IMS |
|  | Service n°113 | URI support for SMS-PP DOWNLOAD as defined in 3GPP TS 31.111 [12] |
|  | Service n°114 | From Preferred |
|  | Service n°115 | IMS configuration data |
|  | Service n°116 | TV configuration |
|  | Service n°117 | 3GPP PS Data Off |
|  | Service n°118 | 3GPP PS Data Off Service List |
|  | Service n°119 | V2X |
|  | Service n°120 | XCAP Configuration Data |
|  | Service n°121 | EARFCN list for MTC/NB-IOT UEs |
|  | Service n°122 | 5GS Mobility Management Information |
|  | Service n°123 | 5G Security Parameters |
|  | Service n°124 | Subscription identifier privacy support |
|  | Service n°125 | SUCI calculation by the USIM |
|  | Service n°126 | UAC Access Identities support |
|  | Service n°127 | Control plane-based steering of UE in VPLMN |
|  | Service n°128 | Call control on PDU Session by USIM |
|  | Service n°129 | 5GS Operator PLMN List |
|  | Service n°130 | Support for SUPI of type NSI or GLI or GCI |
|  | Service n°131 | 3GPP PS Data Off separate Home and Roaming lists |
|  | Service n°132 | Support for URSP by USIM |
|  | Service n°133 | 5G Security Parameters extended |
|  | Service n°134 | MuD and MiD configuration data |
|  | Service n°135 | Support for Trusted non-3GPP access networks by USIM |
|  | Service n°136 | Support for multiple records of NAS security context storage for multiple registration |
|  | Service n°137 | Pre-configured CAG information list |
|  | Service n°138 | SOR-CMCI storage in USIM |
|  | Service n xxx | 5G ProSe |

The EF shall contain at least one byte. Further bytes may be included, but if the EF includes an optional byte, then it is mandatory for the EF to also contain all bytes before that byte. Other services are possible in the future and will be coded on further bytes in the EF. The coding falls under the responsibility of the 3GPP.

Service n°46 can only be declared "available" if service n°45 is declared "available".

Service n°95, n°99 and n°115 shall not be declared "available" if an ISIM application is present on the UICC.

Service n°125 shall only be taken into account if Service n°124 is declared "available". If Service n°124 and Service n°125 are declared "available", the "SUCI calculation is to be performed by the USIM". If Service n°124 is declared "available" and Service n°125 is not declared "available", the "SUCI calculation is to be performed by the ME".

Coding:

1 bit is used to code each service:
bit = 1: service available;
bit = 0: service not available.

- Service available means that the USIM has the capability to support the service and that the service is available for the user of the USIM unless the service is identified as "disabled" in EFEST.
Service not available means that the service shall not be used by the USIM user, even if the USIM has the capability to support the service.

First byte:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | b8 | b7 | b6 | B5 | B4 | b3 | b2 | b1 |
|  |  |  |  |  |  |  |  |  |  | Service n°1 |
|  |  |  |  |  |  |  |  |  |  | Service n°2 |
|  |  |  |  |  |  |  |  |  |  | Service n°3 |
|  |  |  |  |  |  |  |  |  |  | Service n°4 |
|  |  |  |  |  |  |  |  |  |  | Service n°5 |
|  |  |  |  |  |  |  |  |  |  | Service n°6 |
|  |  |  |  |  |  |  |  |  |  | Service n°7 |
|  |  |  |  |  |  |  |  |  |  | Service n°8 |

Second byte:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | b8 | b7 | b6 | B5 | B4 | b3 | b2 | b1 |
|  |  |  |  |  |  |  |  |  |  | Service n°9 |
|  |  |  |  |  |  |  |  |  |  | Service n°10 |
|  |  |  |  |  |  |  |  |  |  | Service n°11 |
|  |  |  |  |  |  |  |  |  |  | Service n°12 |
|  |  |  |  |  |  |  |  |  |  | Service n°13 |
|  |  |  |  |  |  |  |  |  |  | Service n°14 |
|  |  |  |  |  |  |  |  |  |  | Service n°15 |
|  |  |  |  |  |  |  |  |  |  | Service n°16 |

etc.

\* \* \* Third Change \* \* \* \*

## 4.3 DFs at the USIM ADF (Application DF) Level

DFs may be present as child directories of USIMADF. The following DFs are defined:

DFPHONEBOOK '5F3A' (see Note 2).

DFGSM-ACCESS '5F3B'.

DFMexE '5F3C'.

DFWLAN '5F40'.

DFHNB '5F50'.

DFSoLSA '5F70'.

DFBCAST '5F80' (see Note 1).

DFProSe '5F90'.

DFACDC '5FA0'

DFTV '5FB0'

DF5GS '5FC0'

DFSAIP '5FD0' (see Note 3)

DF5GProSe '5FE0'

Note 1: The DF identifier '5F80' is reserved for OMA BCAST Smart Card Profile [49]

Note 2: DF for application specific phonebook. This DF has the same structure as the DFPHONEBOOK under DFTELECOM.

Note 3: The DF identifier '5FD0' is reserved for SIMalliance.

\* \* \* Fourth Change \* \* \* \*

### 4.4.x Contents of files at the DF 5G ProSe level

#### 4.4.x.1 Introduction

This clause describes the additional files that are used for 5G ProSe. The EFs in the Dedicated File DF5GProSe contain configuration data related to 5G ProSe, as specified in 3GPP TS 24.554 [r24554].

DF5GProSe shall be present at the ADFUSIM level if service nºxxx is "available" in EFUST .

#### 4.4.x.2 EF5G\_PROSEST (5G ProSe Service Table)

If service n°xxx is "available" in the USIM Service Table, this file shall be present. This EF indicates which 5G ProSe services are available. If a service is not indicated as available in the 5G ProSe Service Table, the ME shall not select this service.

|  |  |  |
| --- | --- | --- |
| Identifier: '4F01' | Structure: transparent | Optional |
| SFI: '01' |  |
| File size: X bytes, (X ≥ 2) | Update activity: low |
| Access Conditions: READ PIN UPDATE ADM DEACTIVATE ADM ACTIVATE ADM |
| Bytes | Description | M/O | Length |
| 1 | Services n°1 to n°8 | M | 1 byte |
| 2 | Services n°9 to n°16 | O | 1 byte |
| etc. |  |  |  |
| X | Services n°(8X‑7) to n°(8X) | O | 1 byte |

|  |  |  |
| --- | --- | --- |
| Services |  |  |
| Contents: | Service n°1: | 5G ProSe configuration data for direct discovery |
|  | Service n°2: | 5G ProSe configuration data for direct communication |
|  | Service n°3: | 5G ProSe configuration data for UE-to-network relay UE |
|  | Service n 4 | 5G ProSe configuration data for remote UE |
|  | Service n 5 | 5G ProSe configuration data for usage reporting |

The EF shall contain at least one byte for services. Further bytes may be included, but if the EF includes an optional byte, then it is mandatory for the EF to also contain all bytes before that byte. Other services are possible in the future and will be coded on further bytes in the EF.

Coding:

Same as coding of USIM Service Table.

#### 4.4.x.3 EF5G\_PROSEDD (5G ProSe configuration data for direct discovery)

If service n°xxx is "available" in the USIM Service Table and service n°1 is "available" in EF5G\_PROSEST, this file shall be present. This EF contains 5G ProSe policy for direct discovery. The format of the 5G ProSe policy for direct discovery are specified in 3GPP TS 24.555 [r24555].

|  |  |  |
| --- | --- | --- |
| Identifier: '4F02' | Structure: Transparent | Optional |
| SFI: '02' |  |
| File size: X bytes, (X ≥ 3) | Update activity: low |
| Access Conditions: READ PIN UPDATE ADM DEACTIVATE ADM ACTIVATE ADM |
| Bytes | Description | M/O | Length |
| 1 to X | 5G ProSe configuration data for direct discovery TLV objects | M | X bytes |

The 5G ProSe configuration data for direct discovery data object parameters tags:

|  |  |
| --- | --- |
| Description | Tag Value |
| 5G ProSe configuration data for direct discovery Tag | 'A0' |
|  Served by NG-RAN Tag | '80' |
|  Not served by NG-RAN Tag | '81' |
|  ProSe identifiers Tag | '82' |
|  ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules Tag | '83' |
|  Security parameters used for direct discovery | '84' |
|  Group member discovery parameters Tag | '85' |

The 5G ProSe configuration data for direct discovery contents:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Value | M/O | Length (bytes) |
| 5G ProSe configuration data for direct discovery Tag | 'A0' | M | 1 |
| Length | Note 1 | M | Note 2 |
| Validity timer | -- | M | 5 |
| Served by NG-RAN Tag | '80' | M | 1 |
| Length | X1 | M | Note 2 |
| Served by NG-RAN information | -- | M | X1 |
| Not served by NG-RAN Tag | '81' | M | 1 |
| Length | X2 | M | Note 2 |
| Not served by NG-RAN information | -- | M | X2 |
| ProSe direct discovery UE ID | -- | M | 3 |
| ProSe identifiers Tag | '82' | M | 1 |
| Length | X3 | M | Note 2 |
| ProSe identifiers information | -- | M | X3 |
| ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules Tag | '83' | M | 1 |
| Length | X4 | M | Note 2 |
| ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules information | -- | M | X4 |
| Security parameters used for direct discovery Tag | '84' | M | 1 |
| Length | X5 | M | Note 2 |
| Security parameters used for direct discovery information | -- | M | X5 |
| Group member discovery parameters Tag | '85' | O | 1 |
| Length | X6 | O | Note 2 |
| Group member discovery parameters information | -- | O | X6 |
| Note 1: This is the total size of the constructed TLV object.Note 2: The length is coded according to ISO/IEC 8825-1 [35]. |

Editor's note: How to define the security parameters used for direct discovery depends on SA3 final requirements.

- Validity timer

Contents:

The validity timer contains the timer for controlling the validity of 5G ProSe configuration data for direct discovery.

Coding:

The validity timer is encoded as shown in figure 5.3.2.1 and table 5.3.2.1 of 3GPP TS 24.555 [r24555].

- Served by NG-RAN Tag '80'

Contents:

The served by NG-RAN contains 5G ProSe configuration parameters for direct discovery when the UE is served by NG-RAN.

Coding:

The served by NG-RAN is encoded as shown in figures 5.3.2.2 to 5.3.2.5 and tables 5.3.2.2 to 5.3.2.5 of 3GPP TS 24.555 [r24555].

- Not served by NG-RAN Tag '81'

Contents:

The not served by NG-RAN contains 5G ProSe configuration parameters for direct discovery when the UE is not served by NG-RAN.

Coding:

The not served by NG-RAN is encoded as shown in figures 5.3.2.6 to 5.3.2.11 and tables 5.3.2.6 to 5.3.2.11 of 3GPP TS 24.555 [r24555].

- ProSe direct discovery UE ID

Contents:

The ProSe direct discovery UE ID contains ProSe direct discovery UE ID for restricted direct discovery.

Coding:

The ProSe direct discovery UE ID is encoded as shown in figures 5.3.2.1 and tables 5.3.2.1 of 3GPP TS 24.555 [r24555].

- ProSe identifiers Tag '82'

Contents:

The ProSe identifiers contains ProSe application identifiers to be used for direct discovery.

Coding:

The ProSe identifiers is encoded as shown in figures 5.3.2.14 and tables 5.3.2.14 of 3GPP TS 24.555 [r24555].

- ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules Tag '83'

Contents:

The ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules contains a list of ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules.

Coding:

The ProSe identifier to default destination layer-2 ID for initial discovery signalling mapping rules is encoded as shown in figures 5.3.2.15 to 5.3.2.16 and tables 5.3.2.15 to 5.3.2.16 of 3GPP TS 24.555 [r24555].- Security parameters used for direct discovery Tag '84'

Contents:

The security parameters used for direct discovery contains the security parameters to be used for direct discovery.

Coding:

The security parameters used for direct discovery is encoded as shown in figures 5.3.2.x and tables 5.3.2.x of 3GPP TS 24.555 [r24555].

- Group member discovery parameters Tag '85'

Contents:

The group member discovery parameters contains group member discovery parameters.

Coding:

The group member discovery parameters is encoded as shown in figures 5.3.2.12 to 5.3.2.13 and tables 5.3.2.12 to 5.3.2.13 of 3GPP TS 24.555 [r24555].

#### 4.4.x.4 EF5G\_PROSEDC (5G ProSe configuration data for direct communication)

If service n°xxx is "available" in the USIM Service Table and service n°2 is "available" in EF5G\_PROSEST, this file shall be present. This EF contains 5G ProSe policy for direct communication. The format of the 5G ProSe policy for direct communication are specified in 3GPP TS 24.555 [r24555].

|  |  |  |
| --- | --- | --- |
| Identifier: '4F03' | Structure: Transparent | Optional |
| SFI: '03' |  |
| File size: X bytes bytes, (X ≥ 3) | Update activity: low |
| Access Conditions: READ PIN UPDATE ADM DEACTIVATE ADM ACTIVATE ADM |
| Bytes | Description | M/O | Length |
| 1 to X | 5G ProSe configuration data for direct communication TLV objects | M | X bytes |

The 5G ProSe configuration data for direct communication data object parameters tags:

|  |  |
| --- | --- |
| Description | Tag Value |
| 5G ProSe configuration data for direct communication Tag | 'A0' |
|  Served by NG-RAN Tag | '80' |
|  Not served by NG-RAN Tag | '81' |
|  Privacy config Tag | '82' |
|  5G ProSe direct communication in NR-PC5 Tag | '83' |
|  ProSe application to path preference mapping rules Tag | '84' |

The 5G ProSe configuration data for direct communication contents:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Value | M/O | Length (bytes) |
| 5G ProSe configuration data for direct communication Tag | 'A0' | M | 1 |
| Length | Note 1 | M | Note 2 |
| Validity timer | -- | M | 5 |
| Served by NG-RAN Tag | '80' | M | 1 |
| Length | X1 | M | Note 2 |
| Served by NG-RAN information | -- | M | X1 |
| Not served by NG-RAN Tag | '81' | O | 1 |
| Length | X2 | O | Note 2 |
| Not served by NG-RAN information | -- | O | X2 |
| Privacy config Tag | '82' | O | 1 |
| Length | X3 | O | Note 2 |
| Privacy config information | -- | O | X3 |
| 5G ProSe direct communication in NR-PC5 Tag | '83' | O | 1 |
| Length | X4 | O | Note 2 |
| 5G ProSe direct communication in NR-PC5 information | -- | O | X4 |
| ProSe application to path preference mapping rules Tag | '84' | O | 1 |
| Length | X5 | O | Note 2 |
| ProSe application to path preference mapping rules information | -- | O | X5 |
| Note 1: This is the total size of the constructed TLV object.Note 2: The length is coded according to ISO/IEC 8825-1 [35]. |

- Validity timer

Contents:

The validity timer contains the timer for controlling the validity of 5G ProSe configuration data for direct communication.

Coding:

The validity timer is encoded as shown in figure 5.4.2.1 and table 5.4.2.1 of 3GPP TS 24.555 [r24555].

- Served by NG-RAN Tag '80'

Contents:

The served by NG-RAN contains 5G ProSe configuration parameters for direct communication when the UE is served by NG-RAN.

Coding:

The served by NG-RAN is encoded as shown in figures 5.4.2.2 to 5.4.2.4 and tables 5.4.2.2 to 5.4.2.4 of 3GPP TS 24.555 [r24555].

- Not served by NG-RAN Tag '81'

Contents:

The not served by NG-RAN contains 5G ProSe configuration parameters for direct communication when the UE is not served by NG-RAN.

Coding:

The not served by NG-RAN is encoded as shown in figures 5.4.2.5 to 5.4.2.10 and tables 5.4.2.5 to 5.4.2.10 of 3GPP TS 24.555 [r24555].

- Privacy config Tag '82'

Contents:

The privacy config contains configuration parameters for privacy configuration.

Coding:

The privacy config is encoded as shown in figures 5.4.2.11 to 5.4.2.14 and tables 5.4.2.11 to 5.4.2.14 of 3GPP TS 24.555 [r24555].

- 5G ProSe direct communication in NR-PC5 Tag '83'

Contents:

The 5G ProSe direct communication in NR-PC5 contains configuration parameters for 5G ProSe direct communication in NR-PC5.

Coding:

The 5G ProSe direct communication in NR-PC5 is encoded as shown in figures 5.4.2.15 to 5.4.2.37 and tables 5.4.2.15 to 5.4.2.37 of 3GPP TS 24.555 [r24555].

- ProSe application to path preference mapping rules Tag '84'

Contents:

The ProSe application to path preference mapping rules contains a list of ProSe application to path preference mapping rules.

Coding:

The ProSe application to path preference mapping rules is encoded as shown in figures 5.4.2.38 to 5.4.2.39 and tables 5.4.2.38 to 5.4.2.39 of 3GPP TS 24.555 [r24555].

#### 4.4.x.5 EF5G\_PROSEU2NRU (5G ProSe configuration data for UE-to-network relay UE)

If service n°xxx is "available" in the USIM Service Table and service n°3 is "available" in EF5G\_PROSEST, this file shall be present. This EF contains 5G ProSe policy for UE-to-network relay UE. The format of the 5G ProSe policy for UE-to-network relay UE are specified in 3GPP TS 24.555 [r24555].

|  |  |  |
| --- | --- | --- |
| Identifier: '4F04' | Structure: Transparent | Optional |
| SFI: '04' |  |
| File size: X bytes bytes, (X ≥ 3) | Update activity: low |
| Access Conditions: READ PIN UPDATE ADM DEACTIVATE ADM ACTIVATE ADM |
| Bytes | Description | M/O | Length |
| 1 to X | 5G ProSe configuration data for UE-to-network relay UE TLV objects | M | X bytes |

The 5G ProSe configuration data for UE-to-network relay UE data object parameters tags:

|  |  |
| --- | --- |
| Description | Tag Value |
| 5G ProSe configuration data for UE-to-network relay UE Tag | 'A0' |
|  Served by NG-RAN Tag | '80' |
|  Not served by NG-RAN Tag | '81' |
|  Default destination layer-2 ID for the initial UE-to-network relay discovery signalling Tag | '82' |
|  RSC info list Tag | '83' |
|  5QI to PC5 QoS parameters mapping rules Tag | '84' |
|  ProSe identifier to ProSe application server address mapping rules Tag | '85' |

The 5G ProSe configuration data for UE-to-network relay UE contents:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Value | M/O | Length (bytes) |
| 5G ProSe configuration data for UE-to-network relay UE Tag | 'A0' | M | 1 |
| Length | Note 1 | M | Note 2 |
| Validity timer | -- | M | 5 |
| Served by NG-RAN Tag | '80' | M | 1 |
| Length | X1 | M | Note 2 |
| Served by NG-RAN information | -- | M | X1 |
| Not served by NG-RAN Tag | '81' | M | 1 |
| Length | X2 | M | Note 2 |
| Not served by NG-RAN information | -- | M | X2 |
| Default destination layer-2 IDs for the initial UE-to-network relay discovery signalling Tag | '82' | M | 1 |
| Length | X3 | M | Note 2 |
| Default destination layer-2 ID for the initial UE-to-network relay discovery signalling information | -- | M | X3 |
| User info ID for discovery | -- | M | 6 |
| RSC info list Tag | '83' | M |  |
| Length | X4 | M | Note 2 |
| RSC info list information | -- | M | X4 |
| 5QI to PC5 QoS parameters mapping rules Tag | '84' | M | 1 |
| Length | X5 | M | Note 2 |
| 5QI to PC5 QoS parameters mapping rules information | -- | M | X5 |
| ProSe identifier to ProSe application server address mapping rules Tag | '85' | O | 1 |
| Length | X6 | O | Note 2 |
| ProSe identifier to ProSe application server address mapping rules information | -- | O | X6 |
| Note 1: This is the total size of the constructed TLV object.Note 2: The length is coded according to ISO/IEC 8825-1 [35]. |

- Validity timer

Contents:

The validity timer contains the timer for controlling the validity of 5G ProSe configuration data for UE-to-network relay UE.

Coding:

The validity timer is encoded as shown in figure 5.5.2.1 and table 5.5.2.1 of 3GPP TS 24.555 [r24555].

- Served by NG-RAN Tag '80'

Contents:

The served by NG-RAN contains 5G ProSe configuration parameters for UE-to-network relay UE when the UE is served by NG-RAN.

Coding:

The served by NG-RAN is encoded as shown in figures 5.5.2.2 to 5.5.2.4 and tables 5.5.2.2 to 5.5.2.4 of 3GPP TS 24.555 [r24555].

- Not served by NG-RAN Tag '81'

Contents:

The not served by NG-RAN contains 5G ProSe configuration parameters for UE-to-network relay UE when the UE is not served by NG-RAN.

Coding:

The not served by NG-RAN is encoded as shown in figures 5.5.2.5 to 5.5.2.11 and tables 5.5.2.5 to 5.5.2.11 of 3GPP TS 24.555 [r24555].

- Default destination layer-2 IDs for the initial UE-to-network relay discovery signalling Tag '82'

Contents:

The default destination layer-2 IDs for the initial UE-to-network relay discovery signalling contains the default destination layer-2 IDs for the initial UE-to-network relay discovery signalling.

Coding:

The default destination layer-2 IDs for the initial UE-to-network relay discovery signalling is encoded as shown in figures 5.5.2.11a and tables 5.5.2.11a of 3GPP TS 24.555 [r24555].

- User info ID for discovery

Contents:

The user info ID for discovery contains the user info ID for 5G ProSe UE-to-network relay UE.

Coding:

The user info ID is encoded as shown in figures 5.5.2.1 and tables 5.5.2.1 of 3GPP TS 24.555 [r24555].

- RSC info list Tag '83'

Contents:

The RSC info list contains a list of RSCs related parameters.

Coding:

The RSC info list is encoded as shown in figures 5.5.2.12 to 5.5.2.16 and tables 5.5.2.12 to 5.5.2.16 of 3GPP TS 24.555 [r24555].

- 5QI to PC5 QoS parameters mapping rules Tag '84'

Contents:

The 5QI to PC5 QoS parameters mapping rules contains a list of 5QI to PC5 QoS parameters mapping rules.

Coding:

The 5QI to PC5 QoS parameters mapping rules is encoded as shown in figures 5.5.2.17 to 5.5.2.18 and tables 5.5.2.17 to 5.5.2.18 of 3GPP TS 24.555 [r24555].

- ProSe identifier to ProSe application server address mapping rules Tag '85'

Contents:

The ProSe identifier to ProSe application server address mapping rules contains a list of ProSe identifier to ProSe application server address mapping rules.

Coding:

The ProSe identifier to ProSe application server address mapping rules is encoded as shown in figures 5.5.2.19 to 5.5.2.20 and tables 5.5.2.19 to 5.5.2.20 of 3GPP TS 24.555 [r24555].

#### 4.4.x.6 EF5G\_PROSERU (5G ProSe configuration data for remote UE)

If service n°xxx is "available" in the USIM Service Table and service n°3 is "available" in EF5G\_PROSEST, this file shall be present. This EF contains 5G ProSe policy for remote UE. The format of the 5G ProSe policy for remote UE are specified in 3GPP TS 24.555 [r24555].

|  |  |  |
| --- | --- | --- |
| Identifier: '4F05' | Structure: Transparent | Optional |
| SFI: '05' |  |
| File size: X bytes bytes, (X ≥ 3) | Update activity: low |
| Access Conditions: READ PIN UPDATE ADM DEACTIVATE ADM ACTIVATE ADM |
| Bytes | Description | M/O | Length |
| 1 to X | 5G ProSe configuration data for remote UE TLV objects | M | X bytes |

The 5G ProSe configuration data for remote UE data object parameters tags:

|  |  |
| --- | --- |
| Description | Tag Value |
| 5G ProSe configuration data for remote UE Tag | 'A0' |
|  Served by NG-RAN Tag | '80' |
|  Not served by NG-RAN Tag | '81' |
|  Default destination layer-2 ID for the initial UE-to-network relay discovery signalling Tag | '82' |
|  RSC info list Tag | '83' |
|  N3IWF selection information for 5G ProSe layer-3 remote UE Tag | '84' |

The 5G ProSe configuration data for remote UE contents:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Value | M/O | Length (bytes) |
| 5G ProSe configuration data for remote UE Tag | 'A0' | M | 1 |
| Length | Note 1 | M | Note 2 |
| Validity timer | -- | M | 5 |
| Served by NG-RAN Tag | '80' | M | 1 |
| Length | X1 | M | Note 2 |
| Served by NG-RAN information | -- | M | X1 |
| Not served by NG-RAN Tag | '81' | M | 1 |
| Length | X2 | M | Note 2 |
| Not served by NG-RAN information | -- | M | X2 |
| Default destination layer-2 IDs for the initial UE-to-network relay discovery signalling Tag | '82' | M | 1 |
| Length | X3 | M | Note 2 |
| Default destination layer-2 ID for the initial UE-to-network relay discovery signalling information | -- | M | X3 |
| User info ID for discovery | -- | M | 6 |
| RSC info list Tag | '83' | M |  |
| Length | X4 | M | Note 2 |
| RSC info list information | -- | M | X4 |
| N3IWF selection information for 5G ProSe layer-3 remote UE Tag | '84' | O | 1 |
| Length | X5 | O | Note 2 |
| N3IWF selection information for 5G ProSe layer-3 remote UE information | -- | O | X5 |
| Note 1: This is the total size of the constructed TLV object.Note 2: The length is coded according to ISO/IEC 8825-1 [35]. |

- Validity timer

Contents:

The validity timer contains the timer for controlling the validity of 5G ProSe configuration data for remote UE.

Coding:

The validity timer is encoded as shown in figure 5.6.2.1 and table 5.6.2.1 of 3GPP TS 24.555 [r24555].

- Served by NG-RAN Tag '80'

Contents:

The served by NG-RAN contains 5G ProSe configuration parameters for remote UE when the UE is served by NG-RAN.

Coding:

The served by NG-RAN is encoded as shown in figures 5.6.2.2 to 5.6.2.4 and tables 5.6.2.2 to 5.6.2.4 of 3GPP TS 24.555 [r24555].

- Not served by NG-RAN Tag '81'

Contents:

The not served by NG-RAN contains 5G ProSe configuration parameters for remote UE when the UE is not served by NG-RAN.

Coding:

The not served by NG-RAN is encoded as shown in figures 5.6.2.5 to 5.6.2.11 and tables 5.6.2.5 to 5.6.2.11 of 3GPP TS 24.555 [r24555].

- Default destination layer-2 IDs for the initial UE-to-network relay discovery signalling Tag '82'

Contents:

The default destination layer-2 IDs for the initial UE-to-network relay discovery signalling contains the default destination layer-2 IDs for the initial UE-to-network relay discovery signalling.

Coding:

The default destination layer-2 IDs for the initial UE-to-network relay discovery signalling is encoded as shown in figures 5.6.2.11a and tables 5.6.2.11a of 3GPP TS 24.555 [r24555].

- User info ID for discovery

Contents:

The user info ID for discovery contains the user info ID for 5G ProSe remote UE.

Coding:

The user info ID is encoded as shown in figures 5.6.2.1 and tables 5.6.2.1 of 3GPP TS 24.555 [r24555].

- RSC info list Tag '83'

Contents:

The RSC info list contains a list of RSCs related parameters.

Coding:

The RSC info list is encoded as shown in figures 5.6.2.12 to 5.6.2.16 and tables 5.6.2.12 to 5.6.2.16 of 3GPP TS 24.555 [r24555].

- N3IWF selection information for 5G ProSe layer-3 remote UE Tag '84'

Contents:

The N3IWF selection information for 5G ProSe layer-3 remote UE contains two parts:

1) N3IWF identifier configuration (either FQDN or IP address) for 5G ProSe layer-3 remote UE; and

2) 5G ProSe layer-3 UE-to-network relay access node selection information.

Coding:

#### The N3IWF selection information for 5G ProSe layer-3 remote UE is encoded as shown in figures 5.6.2.17 to 5.6.2.19 and tables 5.6.2.17 to 5.6.2.19 of 3GPP TS 24.555 [r24555].4.4.x.7 EF5G\_PROSEUR (5G ProSe configuration data for usage reporting)

Editor's note: the definition of EF5PUR is FFS.

\* \* \* Fifth Change \* \* \* \*

## 5.Y 5G ProSe related procedures

### 5.Y.1 5G ProSe configuration data for direct discovery

Requirement: service n°xxx is "available" in the USIM Service Table and service n°1 is "available" in the 5G ProSe Service Table.

Request: The ME performs the reading procedure with EF5G\_PROSEDD.

### 5.Y.2 5G ProSe configuration data for direct communication

Requirement: service n°xxx is "available" in the USIM Service Table and service n°2 is "available" in the 5G ProSe Service Table.

Request: The ME performs the reading procedure with EF5G\_PROSEDC.

### 5.Y.3 5G ProSe configuration data for UE-to-network relay UE

Requirement: service n°xxx is "available" in the USIM Service Table and service n°3 is "available" in the 5G ProSe Service Table.

Request: The ME performs the reading procedure with EF5G\_PROSEU2NRU.

### 5.Y.4 5G ProSe configuration data for remote UE

Requirement: service n°xxx is "available" in the USIM Service Table and service n°4 is "available" in the 5G ProSe Service Table.

Request: The ME performs the reading procedure with EF5G\_PROSERU.

### 5.Y.5 5G ProSe configuration data for usage reporting

Requirement: service n°xxx is "available" in the USIM Service Table and service n°5 is "available" in the 5G ProSe Service Table.

Request: The ME performs the reading procedure with EF5G\_PROSEUR.

\* \* \* End of Changes \* \* \* \*