**3GPP TSG-CT WG6 Meeting #98eC6-200184**

**E-meeting; 25th – 28th February 2020**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **31.102** | **CR** | **0880** | **rev** | **1** | **Current version:** | **15.5.1** |  |
|  | | | | | | | | |
| *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 | **x** | ME |  | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Configuration file for MuD and MiD services | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | C6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MuD | | | | |  | ***Date:*** | | | 2020-02-27 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | CT1 has created 24.175 that specifies a management object for the multi-device and multi-identity services. This MO can in analogy with other MOs also be implemented in the USIM. This contributions proposes to use a similar approach as for the IMS Configuration, i.e. specify to use the XML format in 24.175, and leave other encodings for the future. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Specify the coding for a file in the USIM.  Correct the identifier value in 4.7 of EFEARFCNList | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not possible to use the USIM to specify the MuD configuration. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 4.2.8, 4.2.113 (new), 4.7, 5.13.7 (new), annex A, annexD, annex E | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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".

\* \* \* Next Change \* \* \* \*

## 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3GPP 3rd Generation Partnership Project

5GCN 5G Core Network

AC Access Condition

ACDC Application specific Congestion control for Data Communication

ACL APN Control List

ADF Application Dedicated File

AID Application Identifier

AK Anonymity key

ALW ALWays

AMF Authentication Management Field

AoC Advice of Charge

APN Access Point Name

ASME Access Security Management Entity

ASN.1 Abstract Syntax Notation One

AuC Authentication Centre

AUTN Authentication token

BDN Barred Dialling Number

BER-TLV Basic Encoding Rule - TLV

B-TID Bootstrapping Transaction Identifier

CCP Capability Configuration Parameter

CK Cipher key

CLI Calling Line Identifier

CNL Co-operative Network List

CPBCCH COMPACT Packet BCCH

CS Circuit switched

DCK Depersonalisation Control Keys

DF Dedicated File

DO Data Object

EC-GSM-IoT Extended coverage in GSM for IoT

DUCK Discovery User Confidentiality Key

DUIK Discovery User Integrity Key

DUSK Discovery User Scrambling Key

eDRX Extended Discontinuous Reception

EARFCN Evolved Absolute Radio Frequency Channel Number

EF Elementary File

EPC Evolved Packet Core

ePDG Evolved Packet Data Gateway

EPS Evolved Packet System

FCP File Control Parameters

FFS For Further Study

FQDN Full Qualified Domain Name

GSM Global System for Mobile communications

HE Home Environment

HNB Home NodeB

HeNB Home eNodeB

IARI IMS Application Reference Identifier

ICC Integrated Circuit Card

ICE In Case of Emergency

ICI Incoming Call Information

ICT Incoming Call Timer

ID Identifier

Idi Identity of the initiator

Idr Identity of the responder

IEI Information Element Identifier

IK Integrity key

IMSI International Mobile Subscriber Identity

K USIM Individual key

KC Cryptographic key used by the cipher A5

KSI Key Set Identifier

LI Language Indication

LSB Least Significant Bit

MAC Message authentication code

MAC-A MAC used for authentication and key agreement

MAC-I MAC used for data integrity of signalling messages

MBMS Multimedia Broadcast/Multicast Service

MCC Mobile Country Code

MCData Mission Critical Data

MCPTT Mission Critical Push To Talk

MCS Mission Critical Services

MCVideo Mission Critical Video

MexE Mobile Execution Environment

MF Master File

MGV-F MTK Generation and Validation Function

MICO Mobile Initiated Connection Only

MiD Multi-iDentity

MIKEY Multimedia Internet KEYing

MM Multimedia Message

MMI Man Machine Interface

MMS Multimedia Messaging Service

MMSS MultiMode System Selection

MNC Mobile Network Code

MODE Indication packet switched/circuit switched mode

MSB Most Significant Bit

MSK MBMS Service Key

MTC Machine Type Communications

MTK MBMS Traffic Key

MuD Multi-Device

MUK MBMS User Key

NB-IoT Narrowband IoT

NEV NEVer

ngKSI Key Set Identifier in 5G

NG-RAN Next Generation Radio Access Network

NPI Numbering Plan Identifier

OCI Outgoing Call Information

OCT Outgoing Call Timer

PBID Phonebook Identifier

PGK ProSe Group Key

PIN Personal Identification Number

PL Preferred Languages

PS Packet switched

PSDK Public Safety Discovery Key

PS\_DO PIN Status Data Object

PSM Power Saving Mode

PTK ProSe Traffic Key

RAND Random challenge

RANDMS Random challenge stored in the USIM

RES User response

RFU Reserved for Future Use

RLOS Restricted Local Operator Services

RST Reset

SDN Service dialling number

SE Security Environment

SEQp Sequence number for MGV-F stored in the USIM

SFI Short EF Identifier

SGSN Serving GPRS Support Node

SN Serving Network

SQN Sequence number

SRES Signed RESponse calculated by a USIM

SUCI Subscription Concealed Identifier

SUPI Subscription Permanent Identifier

SW Status Word

TLV Tag Length Value

TMGI Temporary Mobile Group Identity

TV Television

UAC Unified Access Control

URSP UE Route Selection Policy

USAT USIM Application Toolkit

USD User Service Description

USIM Universal Subscriber Identity Module

V2X Vehicle-to-Everything

VLR Visitor Location Register

WLAN Wireless Local Area Network

WSID WLAN Specific Identifier

XRES Expected user RESponse

\* \* \* Next 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 network specific identifier |
|  | 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 |

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:

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|  |  | 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.

\* \* \* Next Change \* \* \* \*

### 4.2.113 EFMuDMiDConfigData (MuD and MiD Configuration Data)

If service n°134 is "available", this file shall be present.

This EF contains the MuD and MiD configuration data object as specified in 3GPP TS 24.175 [110]:

For the structure, content and coding of this file, see EFMuDMiDConfigData in 3GPP TS 31.103 [2].

NOTE: If this file is present in both the USIM and the ISIM, the file in the ISIM is used. It is assumed that the presence of this file in the USIM when an ISIM is present on the UICC is an incorrect configuration of the UICC.

\* \* \* Next Change \* \* \* \*

## 4.7 Files of USIM

This clause contains two figures depicting the file structure of the UICC and the ADFUSIM. ADFUSIM shall be selected using the AID and information in EFDIR.

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|  |  |  |  |  |  | |  | EFDIR | |  | EFPL | |  | EFARR | |  | EFICCID | |  | EFUMPC | |
|  |  |  |  |  |  | |  | '2F00' | |  | '2F05' | |  | '2F06' | |  | '2FE2' | |  | '2F08' | |
|  |  | DFGSM | |  | see TS | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | '7F20' | |  | 51.011 [18] | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | DFCD | |  | see TS | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | '7F11' | |  | 31.101 [11] | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | DFTELECOM | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | '7F10' | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | |  | EFARR | |  | EFADN | |  | EFFDN | |  | EFSMS | |  | EFMSISDN | |
|  |  |  |  |  |  | |  | '6F06' | |  | '6F3A' | |  | '6F3B' | |  | '6F3C' | |  | '6F40' | |
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|  |  |  |  |  |  | |  | EFSMSP | |  | EFSMSS | |  | EFLND | |  | EFSMSR | |  | EFSDN | |
|  |  |  |  |  |  | |  | '6F42' | |  | '6F43' | |  | '6F44' | |  | '6F47' | |  | '6F49' | |
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|  |  |  |  |  |  | |  | EFEXT1 | |  | EFEXT2 | |  | EFEXT3 | |  | EFBDN | |  | EFEXT4 | |
|  |  |  |  |  |  | |  | '6F4A' | |  | '6F4B' | |  | '6F4C' | |  | '6F4D' | |  | '6F4E' | |
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|  |  |  |  |  |  | |  | EFECCP | |  | EFRMA | |  | EFSUME | |  | EFICE\_DN | |  | EFICE\_FF | |
|  |  |  |  |  |  | |  | '6F4F' | |  | '6F53' | |  | '6F54' | |  | '6FE0' | |  | '6FE1' | |
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|  |  |  |  |  |  | |  | EFPSISMSC | |  |  | |  |  | |  |  | |  |  | |
|  |  |  |  |  |  | |  | '6FE5' | |  |  | |  |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  |  | '4F20' | |  | '4FXX' | |  | '4F21' | |  |  | |  |  | |
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|  |  |  |  |  | DFPHONEBOOK | |  |  | |  |  | |  |  | |  |  | |  |  | |
|  |  |  |  |  | '5F3A' | |  |  | |  |  | |  |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  |  | EFPSC | |  | EFCC | |  | EFPUID | |  | EFPBR | |  | EFUID | |
|  |  |  |  |  |  |  |  | '4F22' | |  | '4F23' | |  | '4F24' | |  | '4F30' | |  | '4FXX' | |
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|  |  |  |  |  |  |  |  | EFCCP1 | |  | EFIAP | |  | EFADN | |  | EFEXT1 | |  | EFPBC | |
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|  |  |  |  |  |  |  |  | EFGRP | |  | EFAAS | |  | EFGAS | |  | EFANR | |  | EFSNE | |
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|  |  |  |  |  |  |  |  | EFEMAIL | |  | EFPURI | |  |  | |  |  | |  |  | |
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|  |  |  |  |  | DFMULTIMEDIA | |  |  | |  |  | |  |  | |  |  | |  |  | |
|  |  |  |  |  | '5F3B' | |  |  | |  |  | |  |  | |  |  | |  |  | |
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|  |  |  |  |  | DFMMSS | |  | See | |  |  | |  |  | |  |  | |  |  | |
|  |  |  |  |  | '5F3C' | |  | C.S0074-A[53] | |  |  | |  |  | |  |  | |  |  | |
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|  |  |  |  |  | DFMCS | |  |  | |  |  | |  |  | |  |  | |  |  | |
|  |  |  |  |  | '5F3D' | |  |  | |  |  | |  |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  |  | EFMST | |  | EFMCS \_CONFIG | |  |  | |  |  | |  |  | |
|  |  |  |  |  |  |  |  | '4F01' | |  | '4F02' | |  |  | |  |  | |  |  | |
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|  |  |  |  |  | DFV2X | |  |  | |  |  | |  |  | |  |  | |  |  | |
|  |  |  |  |  | '5F3E' | |  |  | |  |  | |  |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  |  | '4F01' | |  | '4F02' | |  |  | |  |  | |  |  | |

NOTE 1: Files under DFTELECOM with shaded background are defined in 3GPP TS 51.011 [18].

NOTE 2: Void.

NOTE 3: Files under DFMMSS are defined in C.S0074-A [53].

NOTE 4: The values '4F03', '4F04' and '4F05' under DFMCS were used in earlier versions of this specification, and should not be re-assigned in future versions.

Figure 4.1: File identifiers and directory structures of UICC

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|  | ADFUSIM | | | |  |  | | | |  | |  | | | |  | | |  | | | | | |  | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  |  | | | |  | | EFLI | | | |  | | | EFARR | | | | | | |  | | EFIMSI | | | |  | | EFKeys | | | |  | | EFKeysPS | | |
|  |  | |  | |  |  | | | |  | | '6F05' | | | |  | | | '6F06' | | | | | | |  | | '6F07' | | | |  | | '6F08' | | | |  | | '6F09' | | |
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|  |  | |  | |  |  | | | |  | | EFDCK | | | |  | | | EFHPPLMN | | | | | |  | | | EFCNL | | | |  | | EFACMmax | | | |  | | EFUST | | |
|  |  | |  | |  |  | | | |  | | '6F2C' | | | |  | | | '6F31' | | | | | |  | | | '6F32' | | | |  | | '6F37' | | | |  | | '6F38' | | |
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|  |  | |  | |  |  | | | |  | | EFACM | | | |  | | | EFFDN | | | | | |  | | | EFSMS | | | |  | | EFGID1 | | | |  | | EFGID2 | | |
|  |  | |  | |  |  | | | |  | | '6F39' | | | |  | | | '6F3B' | | | | | |  | | | '6F3C' | | | |  | | '6F3E' | | | |  | | '6F3F' | | |
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|  |  | |  | |  |  | | | |  | | EFMSISDN | | | |  | | | EFPUCT | | | | | |  | | | EFSMSP | | | |  | | EFSMSS | | | |  | | EFCBMI | | |
|  |  | |  | |  |  | | | |  | | '6F40' | | | |  | | | '6F41' | | | | | |  | | | '6F42' | | | |  | | '6F43' | | | |  | | '6F45' | | |
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|  |  | |  | |  |  | | | |  | | '6F46' | | | |  | | | '6F47' | | | | | |  | | | '6F48' | | | |  | | '6F49' | | | |  | | '6F4B' | | |
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|  |  | |  | |  |  | | | |  | | '6F4C' | | | |  | | | '6F4D' | | | | | |  | | | '6F4E' | | | |  | | '6F4F' | | | |  | | '6F50' | | |
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|  |  | |  | |  |  | | | |  | | '6F55' | | | |  | | | '6F56' | | | | | |  | | | '6F57' | | | |  | | '6F58' | | | |  | | '6F5B' | | |
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|  |  | |  | |  | '5F70' | | | |  | |  | | | |  | | |  | | | | | |  | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  |  | |  | |  | | '4F30' | | | |  | | | '4F31' | | | | | |  | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  | '5F40' | | | |  | |  | | | |  | | |  | | | | | |  | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  |  | |  | |  | | EFPseudo | | | |  | | | EFUPLMNWLAN | | | | | |  | | | EF0PLMNWLAN | | | |  | | EFUWSIDL | | | |  | | EFOWSIDL | | |
|  |  | |  | |  |  | |  | |  | | '4F41' | | | |  | | | '4F42' | | | | | |  | | | '4F43' | | | |  | | '4F44' | | | |  | | '4F45' | | |
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|  |  | |  | |  |  | |  | |  | | EFWRI | | | |  | | | EFHWSIDL | | | | | |  | | | EFWEHPLMNPI | | | |  | | EFWHPI | | | |  | | EFWLRPLMN | | |
|  |  | |  | |  |  | |  | |  | | '4F46' | | | |  | | | '4F47' | | | | | |  | | | '4F48' | | | |  | | '4F49' | | | |  | | '4F4A' | | |
|  |  | |  | |  |  | |  | |  | |  | |  | |  | | |  | | |  | |  | | | |  | |  | |  | |  | |  | |  | |  | |  |
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|  |  | |  | |  |  | |  | |  | | '4F4B' | | | |  | | |  | | | | | |  | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  | DFHNB | | | |  | |  | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
|  |  | |  | |  | '5F50' | | | |  | |  | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  |  | |  | |  | | EFACSGL | | | |  | | | EFCSGT | | | | |  | | | | EFHNBN | | | |  | | EFOCSGL | | | |  | | EFOCSGT | | |
|  |  | |  | |  |  | |  | |  | | '4F81' | | | |  | | | '4F82' | | | | |  | | | | '4F83' | | | |  | | '4F84' | | | |  | | '4F85' | | |
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|  |  | |  | |  |  | | | |  | | EFOHNBN | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
|  |  | |  | |  |  | | | |  | | '4F86' | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  | DFProSe | | | |  | |  | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
|  |  | |  | |  | '5F90' | | | |  | |  | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  |  | |  | |  | | EFPROSE\_MON | | | |  | | | EFPROSE\_ANN | | | | |  | | | | EFPROSEFUNC | | | |  | | EFPROSE\_RADIO\_COM | | | |  | | EFPROSE\_RADIO\_MON | | |
|  |  | |  | |  |  | |  | |  | | '4F01' | | | |  | | | '4F02' | | | | |  | | | | '4F03' | | | |  | | '4F04' | | | |  | | '4F05' | | |
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|  |  | |  | |  |  | |  | |  | | EFPROSE\_RADIO\_ANN | | | |  | | | EFPROSE\_POLICY | | | | |  | | | | EFPROSE\_PLMN | | | |  | | EFPROSE\_GC | | | |  | | EFPST | | |
|  |  | |  | |  |  | |  | |  | | '4F06' | | | |  | | | '4F07' | | | | |  | | | | '4F08' | | | |  | | '4F09' | | | |  | | '4F10' | | |
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|  |  | |  | |  |  | |  | |  | | EFPROSE\_UIRC | | | |  | | | EFPROSE\_GM\_DISCOVERY | | | | |  | | | | EFPROSE\_RELAY | | | |  | | EFPROSE\_RELAY\_DISCOVERY | | | |  | |  | | |
|  |  | |  | |  |  | |  | |  | | '4F11' | | | |  | | | '4F12' | | | | |  | | | | '4F13' | | | |  | | '4F14' | | | |  | |  | | |
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|  |  | |  | |  | DFACDC | | | |  | |  | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
|  |  | |  | |  | '5FA0' | | | |  | |  | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  |  | |  | |  | | EFACDC\_LIST | | | |  | | | EFACDC\_OS\_CONFIG | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
|  |  | |  | |  |  | |  | |  | | '4F01' | | | |  | | | '4FXX' | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  |  | |  | |  | | '4FXX' | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
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|  |  | |  | |  | DF5GS  '5FC0' | | | |  | |  | | | |  | | |  | | | | |  | | | |  | | | |  | |  | | | |  | |  | | |
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|  | |  | |  |  | |  | |  | | EF5GS3GPPLOCI | | | |  | | EF5GSN3GPPLOCI | | | | | |  | | | | EF5GS3GPPNSC | | | |  | | EF5GSN3GPPNSC | | | |  | | EF5GAUTHKEYS | | | |
|  | |  | |  |  | |  | |  | | '4F01' | | | |  | | '4F02' | | | | | |  | | | | '4F03' | | | |  | | '4F04' | | | |  | | '4F05' | | | |
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|  | |  | |  |  | |  | |  | | EFUAC\_AIC | | | |  | | EFSUCI\_Calc\_Info | | | | | |  | | | | EFOPL5G | | | |  | | EFNSI | | | |  | | EFRouting\_Indicator | | | |
|  | |  | |  |  | |  | |  | | '4F06' | | | |  | | '4F07' | | | | | |  | | | | '4F08 | | | |  | | '4F09' | | | |  | | '4F0A' | | | |
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|  | |  | |  |  | |  | |  | | EFURSP | | | |  | |  | | | | | |  | | | |  | | | |  | |  | | | |  | |  | | | |
|  | |  | |  |  | |  | |  | | '4F0B' | | | |  | |  | | | | | |  | | | |  | | | |  | |  | | | |  | |  | | | |
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Figure 4.2: File identifiers and directory structures of USIM

NOTE 5: The value '6F65' under ADFUSIM was used in earlier versions of this specification, and should not be re-assigned in future versions.

\* \* \* Next Change \* \* \* \*

### 5.13.7 Multi-device and multi-identity related procedures

Requirement: service n°134 is "available" in the USIM Service Table.

Request: The ME performs the reading procedure with EFMuDMiDConfigData . The UE shall use the EFMuDMiDConfigData as described in TS 24.174 [45] subclauses 4.5.3.1 and 4.5.3.6.

\* \* \* Next Change \* \* \* \*

Annex A (informative):  
EF changes via Data Download or USAT applications

This annex defines if changing the content of an EF by the network (e.g. by sending an SMS), or by a USAT Application, is advisable. Updating of certain EFs "over the air" such as EFACC could result in unpredictable behaviour of the UE; these are marked "Caution" in the table below. Certain EFs are marked "No"; under no circumstances should "over the air" changes of these EFs be considered.

| File identification | | Description | | Change advised | | |
| --- | --- | --- | --- | --- | --- | --- |
| '2F00' | | Application directory | | Caution | | |
| '2F05' | | Preferred languages | | Yes | | |
| '2F06' | | Access rule reference | | Caution | | |
| '2F08' | | UICC Maximum Power Consumption | | No | | |
| '2FE2' | | ICC identification | | No | | |
| '4F01' | | ProSe Monitoring Parameters | | Yes | | |
| '4F01' | | ACDC List | | Yes | | |
| '4F01' | | MCS Service Table | | Yes | | |
| '4F01' | | V2X Service Table | | Yes | | |
| '4F01' | | 5GS 3GPP location information | | Caution (Note 1) | | |
| '4F02' | | V2X configuration data | | Yes | | |
| '4F02' | | ProSe Announcing Parameters | | Yes | | |
| '4F02' | | MCS configuration data | | Yes | | |
| '4F02' | | 5GS non-3GPP location information | | Caution (Note 1) | | |
| '4F03' | | HPLMN ProSe Function | | Yes | | |
| '4F03' | | 5GS 3GPP Access NAS Security Context | | Caution | | |
| '4F04' | | ProSe Direct Communication Radio Parameters | | Yes | | |
| '4F04' | | 5GS non-3GPP Access NAS Security Context | | Caution | | |
| '4F05' | | ProSe Direct Discovery Monitoring Radio Parameters | | Yes | | |
| '4F05' | | 5G authentication keys | | No | | |
| '4F06' | | ProSe Direct Discovery Announcing Radio Parameters | | Yes | | |
| '4F06' | | UAC Access Identities Configuration | | Caution | | |
| '4F07' | | ProSe Policy Parameters | | Yes | | |
| '4F07' | | Subscriber Concealed Identifier Calculation Information | | Yes | | |
| '4F09' | | Network Specific Identifier | | Caution | | |
| '4F09' | | ProSe Group Counter | | No | | |
| '4F0A' | | Routing Indicator | | Yes (Note 5) | | |
| '4F0B' | | UE Route Selection Policies | | Yes | | |
| '4F10' | | ProSe Service Table | | Caution | | |
| '4F11' | | ProSe UsageInformationReportingConfiguration | | Caution (Note 4) | | |
| '4F12' | | ProSe Group Member Discovery Parameters | | Yes | | |
| '4F13' | | ProSe Relay Parameters | | Yes | | |
| '4F14' | | ProSe Relay Discovery Parameters | | Yes | | |
| '4F20' | | Image data | | Yes | | |
| '4F20' | | GSM Ciphering key Kc | | No | | |
| '4FXX' | | Image Instance data Files | | Yes | | |
| '4FXX' | | ACDC OS Configuration | | Yes | | |
| '4F21' | | ICE graphics | | Yes | | |
| '4FXX' | | Unique identifier | | Yes | | |
| '4F22' | | Phone book synchronisation counter | | Yes | | |
| '4F23' | | Change counter | | Yes | | |
| '4F24' | | Previous unique identifier | | Yes | | |
| '4F30' | | Phone book reference file | | Yes | | |
| '4FXX' | | Capability configuration parameters 1 | | Yes | | |
| '4F30' | | SoLSA Access Indicator | | Caution | | |
| '4F31' | | SoLSA LSA List | | Caution | | |
| '4FXX' | | LSA Descriptor files | | Caution | | |
| '4F52' | | GPRS Ciphring key KcGPRS | | No | | |
| '4F63' | | CPBCCH Information | | No | | |
| '4F64' | | Investigation Scan | | Caution | | |
| '4FXX' | | Additional number alpha string | | Yes | | |
| '4FXX' | | Additional number | | Yes | | |
| '4FXX' | | Second name entry | | Yes | | |
| '4FXX' | | Grouping information alpha string | | Yes | | |
| '4FXX' | | Phone book control | | Yes | | |
| '4FXX' | | E-mail addresses | | Yes | | |
| '4FXX' | | Index administration phone book | | Yes | | |
| '4FXX' | | Extension 1 | | Yes | | |
| '4FXX' | | Abbreviated dialling numbers | | Yes | | |
| '4FXX' | | Grouping file | | Yes | | |
| '4FXX' | | TV User Service Description | | Yes | | |
| '4F41' | | Pseudonym | | Caution | | |
| '4F42' | | User controlled PLMN selector for I-WLAN | | No | | |
| '4F43' | | Operator controlled PLMN selector for I-WLAN | | Caution | | |
| '4F44' | | User controlled WSID List | | No | | |
| '4F45' | | Operator controlled WSID List | | Caution | | |
| '4F46' | | WLAN Reauthentication Identity | | No | | |
| 4F47' | | Home I-WLAN Specific Identifier List | | Yes | | |
| '4F47' | | Multimedia Messages List | | Yes | | |
| '4F48' | | I-WLAN Equivalent HPLMN Presentation Indication | | Yes | | |
| '4F48' | | Multimedia Messages Data File | | Yes | | |
| '4F49' | | I-WLAN HPLMN Priority Indication | | Yes | | |
| '4F4A' | | I-WLAN Last Registered PLMN | | Caution | | |
| '4F4B' | | HPLMN Direct Access Indicator | | Yes | | |
| '4F81' | | Allowed CSG lists | | Yes | | |
| '4F82' | | CSG Type | | Yes | | |
| '4F83' | | HNB name | | Yes | | |
| '4F84' | | Operator CSG lists | | Yes | | |
| '4F85' | | Operator CSG Type | | Yes | | |
| '4F86' | | Operator HNB name | | Yes | | |
| '6F05' | | Language indication | | Yes | | |
| '6F06' | | Access rule reference (under ADFUSIM and DFTELECOM) | | Caution | | |
| '6F07' | | IMSI | | Caution (Note 1) | | |
| '6F08' | | Ciphering and integrity keys | | No | | |
| '6F09' | | Ciphering and integrity keys for packet switched domain | | No | | |
| '6F2C' | | De-personalization Control Keys | | Caution | | |
| '6F31' | | Higher Priority PLMN search period | | Caution | | |
| '6F32' | | Co-operative network list | | Caution | | |
| '6F37' | | ACM maximum value | | Yes | | |
| '6F38' | | USIM service table | | Caution | | |
| '6F39' | | Accumulated call meter | | Yes | | |
| '6F3B' | | Fixed dialling numbers | | Yes (Note 2) | | |
| '6F3C' | | Short messages | | Yes | | |
| '6F3E' | | Group identifier level 1 | | Yes | | |
| '6F3F' | | Group identifier level 2 | | Yes | | |
| '6F40' | | MSISDN storage | | Yes | | |
| '6F41' | | PUCT | | Yes | | |
| '6F42' | | SMS parameters | | Yes | | |
| '6F43' | | SMS status | | Yes | | |
| '6F45' | | CBMI | | Caution | | |
| '6F46' | | Service provider name | | Yes | | |
| '6F47' | | Short message status reports | | Yes | | |
| '6F48' | | CBMID | | Yes | | |
| '6F49' | | Service Dialling Numbers | | Yes (Note 2) | | |
| '6F4B' | | Extension 2 | | Yes | | |
| '6F4C' | | Extension 3 | | Yes | | |
| '6F4D' | | Barred dialling numbers | | Yes | | |
| '6F4E' | | Extension 5 | | Yes | | |
| '6F4F' | | Capability configuration parameters 2 | | Yes | | |
| '6F50' | | CBMIR | | Yes | | |
| '6F54' | | SetUp Menu Elements | | Yes | | |
| '6F55' | | Extension 4 | | Yes | | |
| '6F56' | | Enabled services table | | Caution | | |
| '6F57' | | Access point name control list | | Yes | | |
| '6F58' | | Comparison method information | | Yes | | |
| '6F5B' | | Initialisation value for Hyperframe number | | Caution | | |
| '6F5C' | | Maximum value of START | | Yes | | |
| '6F60' | | User controlled PLMN selector with Access Technology | | No | | |
| '6F61' | | Operator controlled PLMN selector with Access Technology | | Caution | | |
| '6F62' | | HPLMN selector with Access Technology | | Caution | | |
| '6F73' | | Packet switched location information | | Caution (Note 1) | | |
| '6F78' | | Access control class | | Caution | | |
| '6F7B' | | Forbidden PLMNs | | Caution | | |
| '6F7E' | | Location information | | No (Note 1) | | |
| '6F80' | | Incoming call information | | Yes | | |
| '6F81' | | Outgoing call information | | Yes | | |
| '6F82' | | Incoming call timer | | Yes | | |
| '6F83' | | Outgoing call timer | | Yes | | |
| '6FAD' | | Administrative data | | Caution | | |
| '6FB1' | | Voice Group Call Service | | Yes | | |
| '6FB2' | | Voice Group Call Service Status | | Yes | | |
| '6FB3' | | Voice Broadcast Service | | Yes | | |
| '6FB4' | | Voice Broadcast Service Status | | Yes | | |
| '6FB5' | | Enhanced Multi Level Pre-emption and Priority | | Yes | | |
| '6FB6' | | Automatic Answer for eMLPP Service | | Yes | | |
| '6FB7' | | Emergency Call Codes | | Caution | | |
| '6FC3' | | Key for hidden phone book entries | | No | | |
| '6FC4' | | Network Parameters | | No | | |
| '6FC5' | | PLMN Network Name | | Yes | | |
| '6FC6' | | Operator Network List | | Yes | | |
| '6FC7' | | Mailbox Dialling Numbers | | Yes | | |
| '6FC8' | | Extension 6 | | Yes | | |
| '6FC9' | | Mailbox Identifier | | Caution | | |
| '6FCA' | | Message Waiting Indication Status | | Caution | | |
| '6FCB' | | Call Forwarding Indication Status | | Caution | | |
| '6FCC' | | Extension 7 | | Yes | | |
| '6FCD' | | Service Provider Display Information | | Yes | | |
| '6FCE' | | MMS Notification | | Yes | | |
| '6FCF' | | Extension 8 | | Yes | | |
| '6FD0' | | MMS Issuer Connectivity Parameters | | Yes | | |
| '6FD1' | | MMS User Preferences | | Yes | | |
| '6FD2' | | MMS User Connectivity Parameters | | Yes | | |
| '6FD3' | | Network's indication of alerting (NIA) | | Caution | | |
| '6FD4' | | Voice Group Call Service Ciphering Algorithm | | Yes | | |
| '6FD5' | | Voice Broadcast Service Ciphering Algorithm | | Yes | | |
| '6FD6' | | GBA Bootstrapping parameters | | Caution | | |
| '6FD7' | | MBMS Service Keys List | | Caution | | |
| '6FD8' | | MBMS User Key | | Caution | | |
| '6FD9' | | EHPLMN | | Caution | | |
| '6FDA' | | GBA NAF List | | Caution | | |
| '6FDB' | | EHPLMN Presentation Indication | | Caution | | |
| '6FDC' | | Last RPLMN Selection Indication | | Caution | | |
| '6FDD' | | NAF Key Centre Address | | Caution | | |
| '6FDE' | | Service Provider Name Icon | | Yes | | |
| '6FDF' | | PLMN Network Name Icon | | Yes | | |
| '6FE0' | | In Case of Emergency – Dialling Number | | Yes | | |
| '6FE1' | | In Case of Emergency – Free Format | | Yes | | |
| '6FE2' | | Network Connectivity Parameters for UICC IP connections | | Yes | | |
| '6FE3' | | EPS location information | | Caution (Note 1) | | |
| '6FE4' | | EPS NAS Security Context | | Caution | | |
| '6FE5' | | Public Service Identity of the SM-SC | | Yes | |
| '6FE6' | | USAT Facility Control | | Caution | |
| '6FE7' | | UICC IARI | | Caution (Note 3) | |
| '6FE8' | | Non Access Stratum Configuration | | Yes | |
| '6FE9' | | UICC certificate | | Yes | |
| '6FEA' | | Relay Node ID | | Yes | |
| '6FEB' | | Max value of Secure Channel counter | | Caution | |
| '6FEC' | | Public Warning System | | Yes | |
| '6FED' | | FDN URI | | Yes (Note 2) | |
| '6FEE' | | BDN URI | | Yes | |
| '6FEF' | | SDN URI | | Yes (Note 2) | |
| '6FF0' | | IMEI(SV) White List | | Yes | |
| '6FF1' | | IMEI(SV) Pairing Status | | Caution | |
| '6FF2' | | IMEI(SV) Pairing Devices | | Caution | |
| '6FF3' | | Home ePDG Identifier | | Yes | |
| '6FF4' | | ePDG Selection Information | | Yes | |
| '6FF5' | | Emergency ePDG Identifier | | Yes | |
| '6FF6' | | ePDG Selection Information for Emergency Services | | Yes | |
| '6FF7' | | From Preferred | | Yes | |
| '6FF8' | | IMSConfigData | | Caution | |
| '6FF9' | | 3GPPPSDATAOFF | | Caution | |
| '6FFA' | | 3GPPPSDATAOFFservicelist | | Caution | |
| '6FFB' | | TV Configuration | | Yes | |
| '6FFC' | | XCAP Configuration Data | | Yes | |
| '6FFD' | | EARFCN List for MTC/NB-IOT UEs | | Yes | |
| 6FFE | | MuD and MiD configuration data | | Yes | |
| NOTE1: If EFIMSI is changed, the UICC should issue REFRESH as defined in 3GPP TS 31.111 [12] and update EFLOCI, EFPSLOCI, EFEPSLOCI, EF5GS3GPPLOCI and EF5GSN3GPPLOCI accordingly.  NOTE2: This file may contain eCALL related test and reconfiguration numbers or URIs.  NOTE3: If EFUICCIARI is changed, the UICC shall issue a REFRESH command as defined in TS 31.111. The ME shall read the updated list of IARIs associated with active applications installed on the UICC.  NOTE4: Updating EFProSe\_UIRC Over-The-Air, especially adding more parameters to the report, may cause a reduction of number of reports to be able to be stored in the UE.  NOTE5: If EFRouting\_Indicator is changed, the UICC shall issue File Change Notification REFRESH, as defined in 3GPP TS 31.111 [12]. | | | | | | |

Editor's Note: The REFRESH for NSI update needs to be further specified.

\* \* \* Next Change \* \* \* \*

Annex D (informative):  
Tags defined in 31.102

|  |  |  |
| --- | --- | --- |
| Tag | Name of Data Element | Usage |
| '43' | Full name for network IEI | PLMN Network Name (EFPNN) |
| '45' | Short name for network IEI | PLMN Network Name (EFPNN) |
| '53' | MBMS Data Object | AUTHENTICATE command parameter, in MBMS security context |
| '53' | MBMS operation response Data Object  The following tags are encapsulated within '53'  'DB' successful MBMS operation tag | Response to AUTHENTICATE command, in MBMS security context |
| '73' | Key Derivation Data Object  The following tags are encapsulated within '73'  '80' Local Key Establishment Control tag  '81' Counter limit tag  '82' Request MAC tag  '83' NAF\_ID tag  '84' Terminal\_ID tag  '85' Terminal\_appli\_ID\_tag  '86' UICC\_appli\_ID tag  '87' RANDx tag  'A0' Key Identifier tag | AUTHENTICATE command parameter, in Local Key Establishment security context |
| '73' | Key Derivation Operation Response Object  The following tags are encapsulated within '73'  '80' Local Key Establishment Control tag  '82' Request MAC tag | Response to AUTHENTICATE command, in Local Key Establishment security context |
| '73' | Key Availability Check Data Object  The following tags are encapsulated within '73'  '80' Local Key Establishment Control tag  'A0' Key Identifier tag | AUTHENTICATE command parameter in Local Key Establishment security context |
| '80' | NAF\_ID tag | GBA NAF List (EFGBANL) |
| '80' | NAF Key Centre address tag | NAF Key Centre Address (EFNAFKCA) |
| '80' | Icon Tag (Icon link is URI) | Service Provider Name Icon (EFSPNI) |
| '80' | Reauthentication Identity tag | WLAN Reauthentication Identity (EFWRI) |
| '80' | NAS signalling priority Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '80' | MMS Implementation tag | MMS User Preference (EFMMSUP)  Multimedia Messages List (EFMML) |
| '80' | IARI TLV TAG | UICC IARI (EFUICCIARI) |
| '80' | Graphics CSG Type tag (Icon link is URI) | CSG Type (EFCSGT) |
| '80' | HNB Name tag | Home NodeB Name (EFHNBN) |
| '80' | PLMN Additional information tag | PLMN Network Name (EFPNN) |
| '80' | ICE Free Format Label tag | In Case of Emergency – Free Format (EFICE-FF) |
| '80' | HPLMN ProSe Function tag | Address of the HPLMN ProSe Function (EFPROSEFUNC) |
| '80' | ProSe Group Counter | Counter for ProSe group (EFPROSE\_GC) |
| '80' | ProSe ServerAddress tag | Server address for usage information reports (EFPROSE\_UIRC) |
| '80' | Home ePDG Identifier TLV | Home ePDG Identifier (EFePDGId) |
| '80' | ePDG Selection Information TLV | ePDG Selection Information (EFePDGSelection) |
| '80' | Emergency ePDG Identifier TLV | Emergency ePDG Identifier (EFePDGIdEm) |
| '80' | ePDG Selection Information for Emergency Services TLV | ePDG Selection Information for Emergency Services (EFePDGSelectionEm) |
| '80' | XCAP\_conn\_params\_policy TLV TAG | EFXCAPConfigData |
| '80' | IMS configuration data encoding | EFIMSConfigData |
| '81' | IMS configuration data | EFIMSConfigData |
| '80' | KAUSF tag | EF5GAUTHKEYS |
| '80' | Protection Scheme Identifier List data object tag | Protection Scheme Identifier List (EFSUCI\_Calc\_Info) |
| '80' | Network Specific Identifier TLV data object tag | Network Specific Identifier (EFNSI) |
| '80' | MuD\_and\_MiD\_configuration\_data encoding | EFMuDMiDConfigData |
| '81' | MuD\_and\_MiD\_configuration\_data | EFMuDMiDConfigData |
| '81' | B-TID tag | GBA NAF List (EFGBANL) |
| '81' | Icon Tag (Icon link is record number) | Service Provider Name Icon (EFSPNI) |
| '81' | Master key tag | WLAN Reauthentication Identity (EFWRI) |
| '81' | Time Stamp counter tag | MBMS User Key (EFMUK) |
| '81' | MMS User preference profile name tag | MMS User Preference (EFMMSUP) |
| '81' | Login Tag | Network Connectivity Parameters for USIM IP connections (EFNCP-IP) |
| '81' | NMO I Behaviour Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '81' | Graphics CSG Type tag (Icon link is record number) | CSG Type (EFCSGT) |
| '81' | ICE Free Format Content tag | In Case of Emergency – Free Format (EFICE-FF) |
| '81' | MM File Identifier / SFI tag | Multimedia Messages List (EFMML) |
| '81' | ProSe CollectionPeriod tag | Collection Period Parameter (EFPROSE\_UIRC) |
| '82' | Counter tag | WLAN Reauthentication Identity (EFWRI) |
| '82' | MMS User Preference information tag | MMS User Preference (EFMMSUP) |
| '82' | Password Tag | Network Connectivity Parameters for USIM IP connections (EFNCP-IP) |
| '82' | Attach with IMSI Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '82' | MM Content Data Object Tag | Multimedia Messages List (EFMML) |
| '82' | ProSe ReportingWindow tag | Reporting Window Parameter (EFPROSE\_UIRC) |
| '82' | KSEAF for non-3GPP access tag | EF5GAUTHKEYS |
| '80' | Home Network Public Key Identifier tag | Home Network Public Key Identifier (EFSUCI\_Calc\_Info) |
| '81' | KSEAF for 3GPP access tag | EF5GAUTHKEYS |
| '83' | Data Destination Address Range Tag | Network Connectivity Parameters for USIM IP connections (EFNCP-IP) |
| '83' | Minimum Periodic Search Timer Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '83' | MM Size tag | Multimedia Messages List (EFMML) |
| '83' | SOR counter tag | EF5GAUTHKEYS |
| '84' | UE parameter update counter tag | EF5GAUTHKEYS |
| '83' | ProSe ReportGroupParameters tag | Reporting Parameter for Goups (EFPROSE\_UIRC) |
| '81' | Home Network Public Key tag | Home Network Public Key  (EFSUCI\_Calc\_Info) |
| '84' | Bearer Description Tag | Network Connectivity Parameters for USIM IP connections (EFNCP-IP) |
| '84' | Extended access barring Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '84' | MM Status tag | Multimedia Messages List (EFMML) |
| '84' | ProSe ReportTimeStampsFirstTransmissionAndReception tag | Reporting Parameter (EFPROSE\_UIRC) |
| '85' | Timer T3245 Behaviour Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '85' | MM Alpha Identifier tag | Multimedia Messages List (EFMML) |
| '85' | ProSe ReportDataTransmitted tag | Reporting Parameter for transmitted Data (EFPROSE\_UIRC) |
| '86' | Override NAS signalling low priority Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '86' | ProSe ReportDataReceived tag | Reporting Parameter for received Data (EFPROSE\_UIRC) |
| '87' | Override Extended access barring Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '87' | ProSe ReportTimeStampsOutOfCoverage tag | Reporting Parameter (EFPROSE\_UIRC) |
| '88' | Fast First Higher Priority PLMN Search Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '88' | ProSe ReportLocationInCoverage tag | Reporting Parameter (EFPROSE\_UIRC) |
| '89' | Text CSG Type tag | CSG Type (EFCSGT) |
| '89' | E-UTRA Disabling Allowed for EMM cause #15 Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '89' | ProSe ReportRadioParameters tag | Reporting Parameter for Radio Parameters (EFPROSE\_UIRC) |
| '8A' | SM RetryWaitTime Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8B' | SM RetryAtRATChange Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8C' | Default\_DCN\_ID Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8D' | Exception Data Reporting Allowed Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| '8E' | RLOSPreferredPLMNList Tag | Non Access Stratum Configuration (EFNASCONFIG) |
| 'A0' | MUK ID tag  The following tags are encapsulated within 'A0'  '80' MUk IDr tag  '82' MUk IDi tag | MBMS User Key (EFMUK) |
| 'A0' | EPS NAS security Context tag  The following tags are encapsulated within 'A0'  '80' Key set identifier KSIASME Tag  '81' ASME key (KASME) Tag  '82' Uplink NAS count Tag  '83' Downlink NAS count Tag  '84' Identifiers of selected NAS integrity and encryption algorithms Tag | EPS NAS Security Context (EFEPSPSC) |
| 'A0' | CSG List TLV object tag  The following tags are encapsulated within 'A0'  '80' PLMN tag  '81' CSG Information tag | Allowed CSG List (EFACSGL) |
| 'A0' | GSM cell information  The following tags are encapsulated within 'A0':  '80' GSM Camping Frequency Information data object  '81' GSM Neighbour Frequency Information data object | Network Parameters (EFNETPAR) |
| 'A0' | Operator CSG List TLV object Tag  The following tags are encapsulated within 'A0'  '80' PLMN Tag  '81' CSG Information Tag  '82' CSG Display indicator tag | Operator CSG Lists (EFOCSGL) |
| 'A0' | ProSe Discovery monitoring parameters  The following tags are encapsulated within 'A0':  '80' PLMN tag  '81' RFU  '82' Model tag | ProSe Monitoring Parameters (EFPROSE\_MON) |
| 'A0' | ProSe Discovery announcing parameters  The following tags are encapsulated within 'A0':  '80' PLMN tag  '81' Range tag  '82' Model tag | ProSe Announcing Parameters (EFPROSE\_ANN) |
| 'A0' | ProSe Policy parameters  The following tags are encapsulated within 'A0':  '80' ProSe Layer-2 Group ID tag  '81' ProSe UE ID tag  '82' ProSe Group IP multicast address tag  '83' Address type tag  '84' Ipv4 address as source tag  '85' Group related security tag  '86' Application Layer Group ID tag | ProSe Policy Parameters (EFPROSE\_POLICY) |
| 'A0' | ProSe PLMN Parameters tag  The following tags are encapsulated within 'A0'  '80' PLMN tag  '81' Direct communication authorisation tag | ProSe PLMN Parameters (EFPROSE\_PRMN) |
| 'A0' | ProSe Direct Communication parameters tag  The following tags are encapsulated within 'A0'  '80' Geographical Area – Polygon tag  '81' Radio parameters tag | ProSe Direct Communication Radio Parameters (EF PROSE\_RADIO\_COM) |
| 'A0' | ProSe Radio parameters tag  The following tags are encapsulated within 'A0'  '80' Geographical Area – Polygon tag  '81' Radio parameters tag | ProSe Direct Discovery Monitoring Radio Parameters (EFPROSE\_RADIO\_MON) |
| 'A0' | ProSe Radio parameters tag  The following tags are encapsulated within 'A0'  '80' Geographical Area – Polygon tag  '81' Radio parameters tag | ProSe Direct Discovery Announcing Radio Parameters (EFPROSE\_RADIO\_ANN) |
| 'A0' | ACDC OS tag | ACDC List (EFACDC\_LIST) |
| 'A0' | ACDC App Id tag  The following tags are encapsulated within 'A0'  '80' ACDC category tag  '81' OS App Id tag | ACDC OS Configuration (EFACDC\_OS\_CONFIG) |
| 'A0' | Group member discovery parameters tag  The following tags are encapsulated within 'A0'  '80' User Info ID tag  '81' Discovery Group ID tag  '82' Application Layer Group ID tag | ProSe Group Member Discovery Parameters (EFPROSE\_GM\_DISCOVERY) |
| 'A0' | ProSe Relay Parameters tag  The following tags are encapsulated within 'A0'  '80' PLMN tag  '81' Relay type tag | ProSe Relay Parameters (EFPROSE\_RELAY) |
| 'A0' | Remote UE parameters tag  The following tags are encapsulated within 'A0'  '80' Relay Service Code tag  '81' User Info ID of Relay tag  '82' IP Versions tag  '83' Security content tag | ProSe Relay Discovery Parameters (EFPROSE\_RELAY\_DISCOVERY) |
| 'A0' | TMGI List Tag | TV Configuration (EFTVCONFIG) |
| 'A0' | USD Tag | TV User Service Description (EFTVUSD) |
| 'A0' | XCAP\_conn\_params\_policy part tag  The following tags are encapsulated within 'A0'  '81' AccessForXCAPTag  '82' Number of XCAP connection parameters policy part TLV's Tag  'A1' XCAP connection parameters policy part tag | EFXCAPConfigData |
| 'A0' | EARFCN List tag  The following tags are encapsulated within 'A0'  '80' EARFCN tag  '81' Geographical Area – Polygon tag | EARFCN list for MTC/NB-IOT UEs (EFEARFCNList) |
| 'A0' | 5GS 3GPP access NAS security Context tag or 5GS non-3GPP access NAS security Context tag  The following tags are encapsulated within 'A0'  '80' ngKSITag  '81' KAMF Tag  '82' Uplink NAS count Tag  '83' Downlink NAS count Tag  '84' Identifiers of selected NAS integrity and encryption algorithms Tag  '85' Identifiers of selected EPS NAS integrity and encryption algorithms for use after mobility to EPS Tag | 5GS 3GPP Access NAS Security Context (EF5GS3GPPSNSC) or  5GS non-3GPP Access NAS Security Context (EF5GSN3GPPSNSC) |
| 'A0' | Protection Scheme Identifier List data object tag | Protection Scheme Identifier List (EFSUCI\_Calc\_Info) |
| 'A1' | XCAP connection parameters policy part tag  The following tags are encapsulated within 'A0'  '81' AccessTag  '82' Application nameTag  '83' Provider ID Tag  '84' URI Tag  '85' XCAP Aithentication User Name Tag  '86' XCAP Authentication password Tag  '87'…XCAP Authentication type Tag  '88'…Address type Tag  '89'…Address Tag  '8A'…PDP Authentication type Tag  '8B'…PDP Authentication Name Tag | EFXCAPConfigData |
| 'A1' | FDD cell information  The following tags are encapsulated within 'A1':  '80' FDD Intra Frequency Information data object  '81' FDD Inter Frequency Information data object | Network Parameters (EFNETPAR) |
| 'A1' | Relay parameters tag  The following tags are encapsulated within 'A0'  '80' Relay Service Code tag  '81' PDN type tag  '82' APN tag  '83' ProSe Relay UE ID tag  '84' Security content tag | ProSe Relay Discovery Parameters (EFPROSE\_RELAY\_DISCOVERY) |
| 'A1' | EARFCN List Tag | TV Configuration (EFTVCONFIG) |
| 'A1' | SUCI TLV data object tag | Response to GET IDENTITY |
| 'A1' | Home Network Public Key List data object  The following tags are encapsulated under 'A1'  '80' Home Network Public Key Identifier tag  '81' Home Network Public Key tag | Home Network Public Key List  (EFSUCI\_Calc\_Info) |
| 'A2' | TDD frequency information  The following tags are encapsulated within 'A2':  '80' TDD Intra Frequency Information data object  '81' TDD Inter Frequency Information data object | Network Parameters (EFNETPAR) |
| 'A3' | Service provider display information  The following tags are encapsulated within 'A3':  '80' Service provider PLMN list | Service Provider Display Information (EFSPDI) |
| 'A8' | Indicator for type 1 EFs (amount of records equal to master EF)  The following tags are encapsulated within 'A8':  'C0' EFADN data object  'C1' EFIAP data object  'C3' EFSNE data object  'C4' EFANR data object  'C5' EFPBC data object  'C6' EFGRP data object  'C9' EFUID data object  'CA' EFEMAIL data object  'CC' EFPURI data object | Phone Book Reference File (EFPBR) |
| 'A9' | Indicator for type 2 EFs (EFs linked via the index administration file)  The following tags are encapsulated within 'A9':  'C3' EFSNE data object  'C4' EFANR data object  'CA' EFEMAIL data object  'CC' EFPURI data object | Phone Book Reference File (EFPBR) |
| 'AA' | Indicator for type 3 EFs (EFs addressed inside an object using a record identifier as a pointer)  The following tags are encapsulated within 'AA':  'C2' EFEXT1 data object  'C7' EFAAS data object  'C8' EFGAS data object  'CB' EFCCP1 data object | Phone Book Reference File (EFPBR) |
| 'AB' | MMS Connectivity Parameters:  The following are encapsulated under 'AB':  '80' MMS Implementation Tag  '81' MMS Relay/Server Tag  '82' Interface to core network and bearer Tag  '83' Gateway Tag  '84' Reserved for 3GPP2: MMS Authentication Mechanism Tag  '85' Reserved for 3GPP2: MMS Authentication User Name Tag | MMS Connectivity Parameters (EFMMSICP / EFMMSUCP) |
| 'DB' | Successful 3G authentication | Response to AUTHENTICATE |
| 'DB' | Successful VGCS/VBS operation authentication tag | Response to AUTHENTICATE |
| 'DB' | Successful GBA operation tag | Response to AUTHENTICATE |
| 'DC' | Synchronisation failure | Response to AUTHENTICATE |
| 'DD' | Access Point Name | APN Control List (EFACL) |
| 'DD' | GBA Security Context Bootstrapping Mode tag | AUTHENTICATE command parameter, in GBA security context |
| 'DE' | GBA Security Context NAF Derivation Mode tag | Response to AUTHENTICATE |

NOTE: the value 'FF' is an invalid tag value. For ASN.1 tag assignment rules see ISO/IEC 8825-1 [35]

\* \* \* Next Change \* \* \* \*

Annex E (informative):  
Suggested contents of the EFs at pre‑personalization

If EFs have an unassigned value, it may not be clear from the main text what this value should be. This annex suggests values in these cases.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| File Identification | | | Description | | | Value | | |
| '2F00' | | | Application directory | | | Card issuer/operator dependent | | |
| '2F05' | | | Preferred languages | | | 'FF…FF' | | |
| '2F06' | | | Access rule reference | | | Card issuer/operator dependent | | |
| '2F08' | | | UICC Maximum Power Consumption | | | Card issuer/operator dependent | | |
| '2FE2' | | | ICC identification | | | operator dependent | | |
| '4F01' | | | ProSe Monitoring Parameters | | | Operator dependent | | |
| '4F01' | | | ACDC List | | | Operator dependent | | |
| '4F01' | | | MCS Service Table | | | '0000' | | |
| '4F01' | | | V2X Service Table | | | Operator dependent | | |
| '4F01' | | | 5GS 3GPP location information | | | 'FFFFFFFFFFFFFFFFFFFFFFFFFF xxxxxx 000000 01' (see NOTE 2) | | |
| '4F02' | | | V2X configuration data | | | Operator dependent | | |
| '4F02' | | | ProSe Announcing Parameters | | | Operator dependent | | |
| '4F02' | | | MCS configuration data | | | Operator dependent | | |
| '4F02' | | | 5GS non-3GPP location information | | | 'FFFFFFFFFFFFFFFFFFFFFFFFFF xxxxxx 000000 01' (see NOTE 2) | | |
| '4F03' | | | HPLMN ProSe Function | | | Operator dependent | | |
| '4F03' | | | 5GS 3GPP Access NAS Security Context | | | 'FF…FF' | | |
| '4F04' | | | ProSe Direct Communication Radio Parameters | | | Operator dependent | | |
| '4F04' | | | 5GS non-3GPP Access NAS Security Context | | | 'FF…FF' | | |
| '4F05' | | | ProSe Direct Discovery Monitoring Radio Parameters | | | Operator dependent | | |
| '4F05' | | | 5G authentication keys | | | 'FF…FF' | | |
| '4F06' | | | ProSe Direct Discovery Announcing Radio Parameters | | | Operator dependent | | |
| '4F06' | | | UAC Access Identities Configuration | | | Operator dependent | | |
| '4F07' | | | ProSe Policy Parameters | | | Operator dependent | | |
| '4F07' | | | Subscriber Concealed Identifier Calculation Information | | | Operator dependent | | |
| '4F08' | | | 5GS Operator PLMN List | | | Operator dependent | | |
| '4F08' | | | ProSe PLMN Parameters | | | Operator dependent | | |
| '4F09' | | | Network Specific Identifier | | | Operator dependent | | |
| '4F09' | | | ProSe Group Counter | | | 'FF…FF' | | |
| '4F0A' | | | Routing Indicator | | | 'F0FF' | | |
| '4F0B' | | | UE Route Selection Policies | | | Operator dependent | | |
| '4F10' | | | ProSe Service Table | | | Operator dependent | | |
| '4F11' | | | ProSe UsageInformationReportingConfiguration | | | Operator dependent | | |
| '4F12' | | | ProSe Group Member Discovery Parameters | | | Operator dependent | | |
| '4F13' | | | ProSe Relay Parameters | | | Operator dependent | | |
| '4F14' | | | ProSe Relay Discovery Parameters | | | Operator dependent | | |
| '4F20' | | | Image data | | | '00FF...FF' | | |
| '4F20' | | | GSM Ciphering key Kc | | | 'FF...FF07' | | |
| '4FXX' | | | Image instance data files | | | 'FF…FF' | | |
| '4FXX' | | | ACDC OS Configuration | | | Operator dependent | | |
| '4FXX' | | | TV User Service Description | | | Operator dependent | | |
| '4F21' | | | ICE graphics | | | 'FF…FF' | | |
| '4FXX' | | | Unique identifier | | | '0000' | | |
| '4F22' | | | Phone book synchronisation counter | | | '00000000' | | |
| '4F23' | | | Change counter | | | '0000' | | |
| '4F24' | | | Previous unique identifier | | | '0000' | | |
| '4F30' | | | Phone book reference file | | | Operator dependent | | |
| '4F30' | | | SoLSA Access Indicator | | | '00FF...FF' | | |
| '4F31' | | | SoLSA LSA List | | | 'FF...FF' | | |
| '4FXX' | | | LSA Descriptor files | | | 'FF…FF' | | |
| '4FXX' | | | Capability configuration parameters 1 | | | 'FF…FF' | | |
| '4F52' | | | GPRS Ciphring key KcGPRS | | | 'FF...FF07' | | |
| '4F63' | | | CPBCCH Information | | | 'FF..FF' | | |
| '4F64' | | | Investigation PLMN scan | | | '00' | | |
| '4FXX' | | | E-mail addresses | | | 'FF…FF' | | |
| '4FXX' | | | Additional number alpha string | | | 'FF…FF' | | |
| '4FXX' | | | Second name entry | | | 'FF…FF' | | |
| '4FXX' | | | Abbreviated dialling numbers | | | 'FF...FF' | | |
| '4FXX' | | | Grouping file | | | '00…00' | | |
| '4FXX' | | | Grouping information alpha string | | | 'FF…FF' | | |
| '4FXX' | | | Phone book control | | | '0000' | | |
| '4FXX' | | | Index administration phone book | | | 'FF…FF' | | |
| '4FXX' | | | Additional number | | | 'FF…FF' | | |
| '4FXX' | | | Extension 1 | | | '00FF...FF' | | |
| '4F41' | | | Pseudonym | | | '0000FF…FF' | | |
| '4F42' | | | User Controlled PLMN selector for I-WLAN | | | 'FF…FF' | | |
| '4F43' | | | Operator Controlled PLMN selector for I-WLAN | | | Operator dependent | | |
| '4F44' | | | User Controlled WSID list | | | '00FF…FF' | | |
| '4F45' | | | Operator controlled WSID list | | | Operator dependent | | |
| '4F46' | | | WLAN Reauthentication Identity | | | 'FF…FF' | | |
| '4F47' | | | Home I-WLAN Specific Identifier List | | | Operator dependent | | |
| '4F47' | | | Multimedia Messages List | | | 'FF…FF' | | |
| '4F48' | | | I-WLAN Equivalent HPLMN Presentation Indication | | | Operator dependent | | |
| '4F48' | | | Multimedia Messages Data File | | | 'FF…FF' | | |
| '4F49' | | | I-WLAN HPLMN Indication | | | Operator dependent | | |
| '4F4A' | | | I-WLAN Last Registered PLMN | | | 'FFFFFF' | | |
| '4F4B' | | | HPLMN Direct Access Indicator | | | Operator dependent | | |
| '4F81' | | | Allowed CSG lists | | | Operator dependent | | |
| '4F82' | | | CSG Type | | | Operator dependent | | |
| '4F83' | | | HNB name | | | Operator dependent | | |
| '4F84' | | | Operator CSG lists | | | Operator dependent | | |
| '4F85' | | | Operator CSG Type | | | Operator dependent | | |
| '4F86' | | | Operator HNB name | | | Operator dependent | | |
| '6F05' | | | Language indication | | | 'FF…FF' | | |
| '6F06' | | | Access rule reference (under ADFUSIM and DFTELECOM) | | | Card issuer/operator dependent | | |
| '6F07' | | | IMSI | | | Operator dependent | | |
| '6F08' | | | Ciphering and integrity keys | | | '07FF…FF' | | |
| '6F09' | | | Ciphering and integrity keys for packet switched domain | | | '07FF…FF' | | |
| '6F2C' | | | De-personalization control keys | | | 'FF…FF' | | |
| '6F31' | | | Higher Priority PLMN search period | | | 'FF' | | |
| '6F32' | | | Co-operative network list | | | 'FF…FF' | | |
| '6F37' | | | ACM maximum value | | | '000000' (see note 1) | | |
| '6F38' | | | USIM service table | | | Operator dependent | | |
| '6F39' | | | Accumulated call meter | | | '000000' | | |
| '6F3B' | | | Fixed dialling numbers | | | 'FF...FF' | | |
| '6F3C' | | | Short messages | | | '00FF...FF' | | |
| '6F3E' | | | Group identifier level 1 | | | Operator dependent | | |
| '6F3F' | | | Group identifier level 2 | | | Operator dependent | | |
| '6F40' | | | MSISDN storage | | | 'FF...FF' | | |
| '6F41' | | | PUCT | | | 'FFFFFF0000' | | |
| '6F42' | | | SMS parameters | | | 'FF...FF' | | |
| '6F43' | | | SMS status | | | 'FF...FF' | | |
| '6F45' | | | CBMI | | | 'FF...FF' | | |
| '6F46' | | | Service provider name | | | Operator dependent | | |
| '6F47' | | | Short message status reports | | | '00FF…FF' | | |
| '6F48' | | | CBMID | | | 'FF...FF' | | |
| '6F49' | | | Service Dialling Numbers | | | 'FF...FF' | | |
| '6F4B' | | | Extension 2 | | | '00FF...FF' | | |
| '6F4C' | | | Extension 3 | | | '00FF...FF' | | |
| '6F4D' | | | Barred Dialling Numbers | | | 'FF...FF' | | |
| '6F4E' | | | Extension 5 | | | '00FF...FF' | | |
| '6F4F' | | | Capability configuration parameters 2 | | | 'FF...FF' | | |
| '6F50' | | | CBMIR | | | 'FF...FF' | | |
| '6F54' | | | SetUp Menu Elements | | | Operator dependent | | |
| '6F55' | | | Extension 4 | | | '00FF...FF' | | |
| '6F56' | | | Enabled services table | | | Operator dependent | | |
| '6F57' | | | Access point name control list | | | '00FF…FF' | | |
| '6F58' | | | Comparison method information | | | 'FF…FF' | | |
| '6F5B' | | | Initialisation value for Hyperframe number | | | 'F0 00 00 F0 00 00' | | |
| '6F5C' | | | Maximum value of START | | | Operator dependent | | |
| '6F60' | | | User controlled PLMN selector with Access Technology | | | 'FFFFFF0000..FFFFFF0000' | | |
| '6F61' | | | Operator controlled PLMN selector with Access Technology | | | 'FFFFFF0000..FFFFFF0000' | | |
| '6F62' | | | HPLMN selector with Access Technology | | | 'FFFFFF0000..FFFFFF0000' | | |
| '6F73' | | | Packet switched location information | | | 'FFFFFFFF FFFFFF xxxxxx 0000 FF 01' (see note 2) | | |
| '6F78' | | | Access control class | | | Operator dependent | | |
| '6F7B' | | | Forbidden PLMNs | | | 'FF...FF' | | |
| '6F7E | | | Location information | | | 'FFFFFFFF xxxxxx 0000 FF 01' (see note 2) | | |
| '6F80' | | | Incoming call information | | | 'FF…FF 000000 00 01FFFF' | | |
| '6F81' | | | Outgoing call information | | | 'FF…FF 000000 01FFFF' | | |
| '6F82' | | | Incoming call timer | | | '000000' | | |
| '6F83' | | | Outgoing call timer | | | '000000' | | |
| '6FAD' | | | Administrative data | | | Operator dependent | | |
| '6FB1' | | | Voice Group Call Service | | | Operator dependent | | |
| '6FB2' | | | Voice Group Call Service Status | | | Operator dependent | | |
| '6FB3' | | | Voice Broadcast Service | | | Operator dependent | | |
| '6FB4' | | | Voice Broadcast Service Status | | | Operator dependent | | |
| '6FB5' | | | EMLPP | | | Operator dependent | | |
| '6FB6' | | | AaeM | | | '00' | | |
| '6FB7' | | | Emergency call codes | | | Operator dependent | | |
| '6FC3' | | | Key for hidden phone book entries | | | 'FF…FF' | | |
| '6FC4' | | | Network Parameters | | | 'FF…FF' | | |
| '6FC5' | | | PLMN Network Name | | | Operator dependent | | |
| '6FC6' | | | Operator Network List | | | Operator dependent | | |
| '6FC7' | | | Mailbox Dialling Numbers | | | Operator dependent | | |
| '6FC8' | | | Extension 6 | | | '00 FF...FF' | | |
| '6FC9' | | | Mailbox Identifier | | | Operator dependent | | |
| '6FCA' | | | Message Waiting Indication Status | | | '00 00 00 00 00' | | |
| '6FCB' | | | Call Forwarding Indication Status | | | 'xx 00 FF...FF' | | |
| '6FCC' | | | Extension 7 | | | '00 FF...FF' | | |
| '6FCD' | | | Service Provider Display Information | | |  | | |
| '6FCE' | | | MMS Notification | | | '00 00 00 FF…FF' | | |
| '6FCF' | | | Extension 8 | | | '00FF...FF' | | |
| '6FD0' | | | MMS Issuer Connectivity Parameters | | | 'FF…FF' | | |
| '6FD1' | | | MMS User Preferences | | | 'FF…FF' | | |
| '6FD2' | | | MMS User Connectivity Parameters | | | 'FF…FF' | | |
| '6FD3' | | | Network's Indication of Alerting (NIA) | | | 'FF...FF' | | |
| '6FD4' | | | Voice Group Call Service Ciphering Algorithm | | | '00…00' | | |
| '6FD5' | | | Voice Broadcast Service Ciphering Algorithm | | | '00…00' | | |
| '6FD6' | | | GBA Bootstrapping parameters | | | 'FF…FF' | | |
| '6FD7' | | | MBMS Service Keys List | | | 'FF…FF' | | |
| '6FD8' | | | MBMS User Key | | | 'FF…FF' | | |
| '6FD9' | | | EHPLMN | | | 'FF…FF' or xxxxxx (see Note 2) | | |
| '6FDA' | | | GBA NAF List | | | 'FF…FF' | | |
| '6FDB' | | | EHPLMN Presentation Indication | | | '00' | | |
| '6FDC' | | | Last RPLMN Selection Indication | | | '00' | | |
| '6FDD' | | | NAF Key Centre Address | | | 'FF…FF' | | |
| '6FDE' | | | Service Provider Name Icon | | | '00 FF…FF' | | |
| '6FDF' | | | PLMN Network Name Icon | | | '00 FF…FF' | | |
| '6FE0' | | | In Case of Emergency – Dialling Number | | | Operator dependent | | |
| '6FE1' | | | In Case of Emergency – Free Format | | | Operator dependent | | |
| '6FE2' | | | Network Connectivity Parameters for UICC IP connections | | | Operator dependent | | |
| '6FE3' | | | EPS location information | | | 'FFFFFFFFFFFFFFFFFFFFFFFF xxxxxx0000 01' (see note 2) | | |
| '6FE4' | | | EPS NAS Security Context | | | 'FF…FF' | | |
| '6FE5' | | | Public Service Identity of the SM-SC | | | Operator dependent | | |
| '6FE6' | | | USAT Facility Control | | | '80 1E 60 C0 1E 90 00 80 04 00 00 00  00 00 00 00 00 F0 00 00 00 00 40 00  00 00 00 00 00 80' | | |
| '6FE7' | | | UICC IARI | | | Operator dependent | | |
| '6FE8' | | | Non Access Stratum Configuration | | | Operator dependent | | |
| '6FE9' | | | UICC certificate | | | Card Issuer / Operator dependent | | |
| '6FEA' | | | Relay Node ID | | | Operator dependent | | |
| '6FEB' | | | Max value of Secure Channel counter | | | FF..FF | | |
| '6FEC' | | | Public Warning System | | | Operator dependent | | |
| '6FED' | | | FDN URI | | | 'FF…FF' | | |
| '6FEE' | | | BDN URI | | | 'FF…FF' | | |
| '6FEF' | | | SDN URI | | | 'FF…FF' | | |
| '6FF0' | | | IMEI(SV) White List | | | Operator dependent (at least 1 range of IMEI(SV) values) | | |
| '6FF1' | | | IMEI(SV) Pairing Status | | | 'FF…FF' | | |
| '6FF2' | | | IMEI(SV) Pairing Devices | | | 'FF…FF' | | |
| '6FF3' | | | Home ePDG Identifier | | | 'FF…FF' | | |
| '6FF4' | | | ePDG Selection Information | | | 'FF…FF' | | |
| '6FF5' | | | Emergency ePDG Identifier | | | 'FF…FF' | | |
| '6FF6' | | | ePDG Selection Information for Emergency Services | | | 'FF…FF' | | |
| '6FF7' | | | From Preferred | | | '00' | | |
| '6FF8' | | | IMSConfigData | | | Operator dependent | | |
| '6FF9' | | | 3GPPPSDATAOFF | | | Operator dependent | | |
| '6FFA' | | | 3GPPPSDATAOFFservicelist | | | Operator dependent | | |
| '6FFB' | | | TV Configuration | | | Operator dependent | | |
| '6FFC' | | | XCAP Configuration Data | | | Operator dependent | | |
| '6FFD' | | | EARFCN list for MTC/NB-IOT UEs | | | Operator dependent | | |
| '6FFE | | | MuD and MiD Configuration Data | | | Operator dependent | | |

NOTE 1: The value '000000' means that ACMmax is not valid, i.e. there is no restriction on the ACM. When assigning a value to ACMmax, care should be taken not to use values too close to the maximum possible value 'FFFFFF', because the INCREASE command does not update EFACM if the units to be added would exceed 'FFFFFF'. This could affect the call termination procedure of the Advice of Charge function.

NOTE 2: xxxxxx stands for any valid MCC and MNC, coded according to TS 24.008 [9].

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