**3GPP TSG-CT WG6 Meeting #98eC6-200183**

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **31.103** | **CR** | **0133** | **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 contribution 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 ISIM.  In annex B two minor errors of existing text under the A1 tag have been corrected. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not possible to use the ISIM to specify the MuD configuration. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 4.2.7, 4.2.21 (new), 4.3, 5.3.7 (new), annex A, annex B, annex C. | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 that, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) 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 31.102: "Characteristics of the USIM Application".

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

[4] 3GPP TS 33.102: "3G Security; Security Architecture".

[5] 3GPP TS 33.103: "3G Security; Integration Guidelines".

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

[7] Void.

[8] Void.

[9] 3GPP TS 23.003: "Numbering, Addressing and Identification".

[10] Void.

[11] Void.

[12] 3GPP TS 25.101: "UE Radio Transmission and Reception (FDD)".

[13] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".

[14] 3GPP TS 33.203: "3G security; Access security for IP-based services".

[15] 3GPP TS 24.228: "Signalling flows for the IP multimedia call control based on SIP and SDP; Stage 3".

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

[17] 3GPP TS 23.038: "Alphabets and language-specific information".

[18] Void

[19] 3GPP TS 51.011 Release 4: "Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface".

[20] 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)".

[21] 3GPP TS 22.101: "Service aspects; Service principles".

[22] Void.

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

[24] IETF RFC 2486: "The Network Access Identifier".

[25] 3GPP TS 33.220: "Generic Authentication Architecture (GAA); Generic bootstrapping architecture".

[26] IETF RFC 2617: "HTTP Authentication: Basic and Digest Access Authentication". (<http://www.ietf.org/rfc/rfc2617.txt>)

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

[28] 3GPP TS 33.110: "Key establishment between a Universal Integrated Circuit Card (UICC) and a terminal".

[29] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

[30] 3GPP TS 24.011: "Point‑to‑Point (PP) Short Message Service (SMS) support on mobile radio interface".

[31] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".

[32] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[33] 3Void

[34] 3GPP TS 24.607: "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification".

[35] 3GPP TS 24.167: "3GPP IMS Management Object (MO); Stage 3".

[36] 3GPP TS 24.341: "Support of SMS over IP networks; Stage 3".

[37] OMA-DDS-DM\_ConnMO\_3GPPPS-V1\_0-20081024-A: " Standardized Connectivity Management Objects 3GPP Packet Switched Bearer Paramaters".

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

[39] 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)".

[40] 3GPP TS 24.623: "Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services".

[41] OMA OMA-TS-XDM\_MO-V1\_1-20080627-A: "OMA Management Object for XML Document Management".

[42] vod.

[43] 3GPP TS 24.483: "Mission Critical Services(MCS) Management Object (MO)".

[44] 3GPP TS 24.175: "Management Object (MO) for Multi-Device and Multi-Identity in IMS".

[45] 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

AC Access Condition

ADF Application Dedicated File

AID Application IDentifier

AK Anonymity Key

AKA Authentication and Key Agreement

ALW ALWays

AMF Authentication Management Field

ASN.1 Abstract Syntax Notation One

AuC Authentication Centre

AUTN AUthentication TokeN

BER-TLV Basic Encoding Rule - TLV

B-TID Bootstrapping Transaction IDentifier

CK Cipher Key

DF Dedicated File

EF Elementary File

FFS For Further Study

FQDN Fully Qualified Domain Name

HE Home Environment

HN Home Network

IARI IMS Application Reference Identifier

ICC Integrated Circuit Card

ID IDentifier

IK Integrity Key

IM IP Multimedia

IMPI IM Private Identity

IMPU IM PUblic identity

IMS IP Multimedia Subsystem

ISIM IM Services Identity Module

K long-term secret Key shared between the ISIM and the AuC

KSI Key Set Identifier

LI Language Indication

LSB Least Significant Bit

MAC Message Authentication Code

MCData Mission Critical Data

MCPTT Mission Critical Push To Talk

MCS Mission Critical Services

MCVideo Mission Critical Video

MF Master File

MiD Multi-iDentity

MSB Most Significant Bit

MuD Multi-Device

NAI Network Access Identifier

NEV NEVer

PIN Personal Identification Number

PL Preferred Languages

PS\_DO PIN Status Data Object

RAND RANDom challenge

RES user RESponse

RFU Reserved for Future Use

RST ReSeT

SDP Session Description Protocol

SFI Short EF Identifier

SIP Session Initiation Protocol

SQN SeQuence Number

SW Status Word

TLV Tag Length Value

UE User Equipment

WebRTC Web Real-Time Communication

WWSF WebRTC Web Server Function

XRES eXpected user RESponse

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

### 4.2.7 EFIST (ISIM Service Table)

This EF indicates which optional services are available. If a service is not indicated as available in the ISIM, the ME shall not select this service. The presence of this file is mandatory if optional services are provided in the ISIM.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier: '6F07' | | Structure: transparent | | | Optional | |
| SFI: '07' | | |  | | | |
| 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: | P-CSCF address |
|  | Service n°2 | Generic Bootstrapping Architecture (GBA) |
|  | Service n°3 | HTTP Digest |
|  | Service n°4 | GBA-based Local Key Establishment Mechanism |
|  | Service n°5 | Support of P-CSCF discovery for IMS Local Break Out |
|  | Service n°6 | Short Message Storage (SMS) |
|  | Service n°7 | Short Message Status Reports (SMSR) |
|  | Service n°8 | Support for SM-over-IP including data download via SMS-PP as defined in TS 31.111 [31] |
|  | Service n°9 | Communication Control for IMS by ISIM |
|  | Service n°10 | Support of UICC access to IMS |
|  | Service n°11 | URI support by UICC |
|  | Service n°12 | Media Type support |
|  | Service n°13 | IMS call disconnection cause |
|  | Service n°14 | URI support for MO SHORT MESSAGE CONTROL |
|  | Service nº15 | Mission Critical Services |
|  | Service n°16 | URI support for SMS-PP DOWNLOAD as defined in 3GPP TS 31.111 [31] |
|  | Service n°17 | From Preferred |
|  | Service n°18 | IMS configuration data |
|  | Service n°19 | XCAP Configuration Data |
|  | Service n°20 | WebRTC URI |
|  | Service n°21 | 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.

Coding:

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

- Service available means that the ISIM has the capability to support the service and that the service is available for the user of the ISIM.  
Service not available means that the service shall not be used by the ISIM user, even if the ISIM 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.

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

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

If service n°21 is "available", this file shall be present.

This EF contains the Multi-Device and Multi-Identity configuration data object as specified in 3GPP TS 24.175 [44]:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier: '6FFE' | | Structure: BER-TLV | | | Optional | |
| File size: X bytes | | | Update activity: low | | | |
| Access Conditions:  READ PIN  UPDATE ADM  DEACTIVATE ADM  ACTIVATE ADM | | | | | | |
| Bytes | Description | | | M/O | | Length |
| N/A | MuD\_and\_MiD\_configuration\_data encoding | | | M | | 3 bytes |
| N/A | MuD\_and\_MiD\_configuration\_data | | | O | | Y |

Data object tags:

|  |  |  |
| --- | --- | --- |
| Data objects | Tag Values | Coding |
| MuD\_and\_MiD\_configuration\_data encoding | '80' | As specified below. |
| MuD\_and\_MiD\_configuration\_data | '81' |  |

Coding of the MuD\_and\_MiD\_configuration\_data encoding object

Coding of the MuD\_and\_MiD\_configuration\_data encoding object

|  |  |  |  |
| --- | --- | --- | --- |
| Length | Description | Value | Status |
| 1 byte | MuD\_and\_MiD\_configuration\_data encoding object Tag | '80' | M |
| 1 byte | MuD\_and\_MiD\_configuration\_data encoding object | - | M |

Contents:

Indicates the coding used for all the MuD and Mid configuration objects stored in the EFIMSConfigData.

Coding:

A value of '00' indicates the XML format described in 3GPP TS 24.175 [44]. All other values are reserved.

MuD\_and\_MiD\_configuration\_data object

Coding of the MuD\_and\_MiD\_configuration\_data object

|  |  |  |  |
| --- | --- | --- | --- |
| Length | Description | Value | Status |
| 1 byte | MuD\_and\_MiD\_configuration\_data object Tag | '81' | M |
| X bytes | MuD\_and\_MiD\_configuration\_data object Length | Y | M |
| Y bytes | MuD\_and\_MiD\_configuration\_data object | - | M |

Contents:

Contains the management object as specified in 3GPP TS 24.175 [44].

Coding:

As specified in the MuD\_and\_MiD\_configuration\_data encoding object above.

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

## 4.3 ISIM file structure

This subclause contains a figure depicting the file structure of the ADFISIM. ADFISIM shall be selected using the AID and information in EFDIR.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ADFISIM | |  |  | |  |  | |  |  | |  |  | |  |
|  |  |  | |  |  | |  |  | |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EFIST | |  | EFIMPI | | EFDOMAIN | |  | EFIMPU | |  |
|  |  |  |  | '6F07' | |  | '6F02' | |  | '6F03' | |  | '6F04' | |  |
|  |  |  |  |  |  |  |  |  |  |  | |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EFAD | |  | EFARR | | EFP-CSCF | |  | EFGBAP | |  |
|  |  |  |  | '6FAD' | |  | '6F06' | |  | '6F09' | |  | '6FD5' | |  |
|  |  |  |  |  |  |  |  |  |  |  | |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EFGBANL | |  | EFNAFKCA | |  | EFUICCIARI | |  |  | |  |
|  |  |  |  | '6FD7' | |  | '6FDD' | |  | '6FE7' | |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  | |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EFSMS | |  | EFSMSS | | EFSMSR | |  | EFSMSP | |  |
|  |  |  |  | '6F3C' | |  | '6F43' | |  | '6F47' | |  | '6F42' | |  |
|  |  |  |  |  |  |  |  |  |  |  | |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EFFromPreferred | |  | EFIMSConfigData | | EFXCAPConfigData | |  | EFWebRTCURI | |  |
|  |  |  |  | '6FF7' | |  | '6FF8 | |  | '6FFC' | |  | '6FFA' | |  |
|  |  |  |  |  | |  |  | |  |  | |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | EFMuDMiDConfigData | |  |  | |  |  | |  |  | |  |
|  |  |  |  | '6FFE' | |  |  | |  |  | |  |  | |  |

Figure 1: File identifiers and directory structures of ISIM

NOTE: The value '6FF9' under ADFISIM was used in earlier versions of this specification, and should not be re-assigned in future versions.

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

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

Requirement: service n°21 is "available" in the ISIM 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" 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 |
| --- | --- | --- |
| '6F02' | IMS private user identity | Caution (note 1) |
| '6F03' | Home Network Domain Name | Caution (note 1) |
| '6F04' | IMS public user identity | Caution (note 1) |
| '6FAD' | Administrative Data | Caution |
| '6F06' | Access Rule Reference | Caution |
| '6F07' | ISIM Service Table | Caution |
| '6F09' | P-CSCF address | Caution (note 1) |
| '6FD5' | GBA Bootstrapping parameters | Caution |
| '6FD7' | GBA NAF List | Caution |
| '6FDD' | NAF Key Centre Address | Caution |
| '6F3C' | Short messages | Yes |
| '6F42' | SMS parameters | Yes |
| '6F43' | SMS status | Yes |
| '6F47' | Short message status reports | Yes |
| '6FE5' | Public Service Identity of the SM-SC | Yes |
| '6FE7' | UICC IARI | Caution (note 2) |
| '6FF7' | From Preferred | Yes |
| '6FF8' | IMSConfigData | Caution (note 1) |
| '6FFC' | XCAP Configuration Data | Yes |
| '6FFA' | WebRTC URI | Yes |
| '6FFE' | MuD and MiD configuration data | Yes |
| NOTE 1: If EFIMPI, EFIMPU, EFDOMAIN, P-CSCF or IMSConfigData are changed, the UICC should issue a REFRESH command.  NOTE 2: 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. | | |

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

Annex B (informative):  
Tags defined in 31.103

|  |  |  |
| --- | --- | --- |
| Tag | Name of Data Element | Usage |
| '80' | NAF\_ID | EFGBANL |
| '80' | NAI TLV data object | EFIMPI |
| '80' | P-CSCF TLV data object | EFP-CSCF |
| '80' | URI TLV data object | EFIMPU, EFDOMAIN, EFWebRTCURI |
| '80' | XCAP\_conn\_params\_policy TLV TAG | EFXCAPConfigData |
| '80' | IMS configuration data encoding | EFIMSConfigData |
| '80' | MuD\_and\_MiD\_configuration\_data encoding | EFMuDMiDConfigData |
| '81' | IMS configuration data | EFIMSConfigData |
| '81' | B-TID | EFGBANL |
| '81' | MuD\_and\_MiD\_configuration\_data | EFMuDMiDConfigData |
| '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 |
| 'A1' | XCAP connection parameters policy part tag  The following tags are encapsulated within 'A1'  '81' AccessTag  '82' Application nameTag  '83' Provider ID Tag  '84' URI Tag  '85' XCAP Authentication 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  '8C'…PDP Authentication Secret Tag | EFXCAPConfigData |
| 'DB' | Successful IMS authentication | Response to AUTHENTICATE"IMS AKA security context" |
| 'DB' | HTTP Digest Context response | Response to AUTHENTICATE "HTTP Digest security context" |
| 'DB' | Successful GBA operation | Response to AUTHENTICATE "GBA security context" |
| 'DC' | Synchronisation failure | Response to AUTHENTICATE "IMS AKA security context" or "GBA security context (Bootstrapping Mode)" |
| 'DD' | GBA Security Context Bootstrapping Mode | AUTHENTICATE "GBA security context" |
| 'DE' | GBA Security Context NAF Derivation Mode | AUTHENTICATE "GBA security context" |

NOTE: the value 'FF' is an invalid tag value. For ASN.1 tag assignment rules see ISO/IEC 8825-1 [20]

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

Annex C (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 |
|  |  |  |
| '6F02' | IMS private user identity | '8000FF…FF' |
| '6F03' | Home Network Domain Name | '8000FF…FF' |
| '6F04' | IMS public user identity | '8000FF…FF' |
| '6FAD' | Administrative Data | Operator dependent |
| '6F06' | Access Rule Reference | Card issuer/operator dependent |
| '6FD5' | GBA Bootstrapping parameters | 'FF…FF' |
| '6F07' | ISIM Service Table | Operator dependent |
| '6F09' | P-CSCF address | Operator dependent |
| '6FD7' | GBA NAF List | 'FF…FF' |
| '6FDD' | NAF Key Centre Address | 'FF…FF' |
| '6FE7' | UICC IARI | Operator dependent |
| '6FF7' | From Preferred | '00' |
| '6FF8' | IMSConfigData | Operator dependent |
| '6FFC' | XCAP Configuration Data | Operator dependent |
| '6FFA' | WebRTC URI | Operator dependent |
| '6FFE' | MuD and MiD Configuration Data | Operator dependent |

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