**3GPP TSG-CT WG6 Meeting #91 *C6-180692***

**West Palm Beach (USA), 27th November – 30th November 2018**

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| *CR-Form-v11.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **31.102** | **CR** | **0818** | **rev** | **1** | **Current version:** | **15.2.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps | **X** | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | Enhance USIM OPL configuration to support 3 bytes TAC when in NG-RAN. | | | | | | | | | |
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| ***Source to WG:*** | Qualcomm Incorporated, Intel | | | | | | | | | |
| ***Source to TSG:*** | C6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GS\_Ph1-CT | | | | |  | | ***Date:*** | | 2018-11-30 |
|  |  | | | |  | | |  | |  |
| ***Category:*** | **C** |  | | | | | | ***Release:*** | | Rel-15 |
|  | *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:*** | | TAC is specified as 3 bytes long for NG-RAN as specified in 3GPP TS 38.413 clause 9.3.3.10 and in 3GPP TS 24.501 clause 9.10.3.8. So, a USIM capability shall be enhanced to allow configuration of 3 bytes TAC values for the purpose of identifying the operator name. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Introduce a new EFOPL5G for Ng-RAN TAC range used by the ME when registered on NG-RAN | | | | | | | | |
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| ***Consequences if not approved:*** | | Operators aren’t able to configure operator names in the USIM when they use 3-byte TAC values for NG-RAN | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.8, 4.2.58, 4.4.11.1, 4.4.11.9 (New), 4.7, 5.3.xxx (New), Annex A, Annex E, Annex H.9 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

### 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.

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| --- | --- | --- | --- | --- | --- | --- |
| 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 |

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| --- | --- | --- |
| ‑Services |  |  |
| Contents: | Service n°1: | Local Phone Book |
|  | … | … |
|  | Service n°45: | PLMN Network Name |
|  | Service n°46: | Operator PLMN List |
|  | Service n°47: | Mailbox Dialling Numbers |
|  | … | … |
|  | Service n°126 | UAC Access Identities support |
|  | Service n°127 | Expect control plane-based Steering of Roaming information during initial registration in VPLMN |
|  | Service n°128 | Call control on PDU Session by USIM |
|  | Service n°xxx | 5GS Operator PLMN List |

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

### 4.2.58 EFPNN (PLMN Network Name)

If service n°45 is "available", this file shall be present.

This EF contains the full and short form versions of the network name for the registered PLMN. The ME shall use these versions in place of its own versions of the network name for the PLMN (stored in the ME's memory list), and also in place of the versions of the network name received when registered to the PLMN, as defined by TS 24.008 [9].

This file may also contain PLMN additional information to be displayed to the user during the Manual Network Selection procedures as defined in TS 23.122 [31].

If the UE is registered in NG-RAN and EFOPL5G is not present, or if the UE is registered in other technologies and EFOPL is not present, then the first record in this EF is used for the default network name when registered in the HPLMN (if the EHPLMN list is not present or is empty) or an EHPLMN (if the EHPLMN list is present).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier: '6FC5' | | Structure: linear fixed | | | Optional | |
| SFI: '19' | | |  | | | |
| Record length: X bytes; X ≥ 3 | | | Update activity: low | | | |
| Access Conditions:  READ ALWAYS  UPDATE ADM  ACTIVATE ADM  DEACTIVATE ADM | | | | | | |
| Bytes | Description | | | M/O | | Length |
| 1 to X | Network name TLV objects | | | M | | X bytes |

- Network name TLV objects.

The content and coding (Full name for network and Short name for network) is defined below, where the fields within the objects are defined in TS 24.008 [9]:

…

Unused bytes shall be set to 'FF'.

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

### 4.4.11 Contents of files at the DF5GS level

#### 4.4.11.1 Introduction

This clause describes the files that are specific for 5GS.

DF5GS shall be present at the ADFUSIM level if any of the following services are "available" in EFUST (USIM Service Table):

|  |  |
| --- | --- |
| 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 | Steering of UE in VPLMN |
| Service n°xxx | 5GS Operator PLMN List |

#### 4.4.11.2 EF5GS3GPPLOCI (5GS 3GPP location information)

If service n°122 is "available" in EFUST, this file shall be present.

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### 4.4.11.9 EFOPL5G (5GS Operator PLMN List)

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

This EF contains a prioritised list of Tracking Area Identity (TAI) identities for NG-RAN that are used to associate a specific operator name contained in EFPNN or EFPNNI with the TAI. The ME shall use this EF in association with the EFPNN in place of any network name stored within the ME's internal list and any network name received when registered to the PLMN, as defined by TS 24.501 [104]. The PLMN Network Name may also be provided in a graphical format in EFPNNI. The ME shall use the text format or the graphical format or both to display the service provider name according to the rules defined in section 4.2.89.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier: '4F08' | | Structure: linear fixed | | | Optional | |
| SFI: '08' | | |  | | | |
| Record length: X bytes, (X ≥ 10) | | | Update activity: low | | | |
| Access Conditions:  READ ALWAYS  UPDATE ADM  DEACTIVATE ADM  ACTIVATE ADM | | | | | | |
| Bytes | Description | | | M/O | | Length |
| 1 to 9 | Tracking Area Identity | | | M | | 9 bytes |
| 10 | PLMN Network Name Record Identifier | | | M | | 1 byte |

- Tracking Area Identity

Contents:  
Tracking Area Identity for NG-RAN, this comprises of the MCC, MNC and TAC

Coding:   
PLMN: according to TS 24.501 [104]  
A BCD value of 'D' in any of the MCC and/or MNC digits shall be used to indicate a "wild" value for that corresponding MCC/MNC digit

TAC: according to TS 24.501 [104]

Two values for the TAC are stored in order to allow a range of TAC values to be specified for a given PLMN. A value of '000000' stored in bytes 4 to 6 and a value of 'FFFFFE' stored in bytes 7 to 9 shall be used to indicate the entire range of TACs for the given PLMN. In the case where only a single TAC value is to be specified then the value stored in bytes 4 to 6 shall be identical to the value stored in bytes 7 to 9 for the given PLMN. If a range of TAC values are to be specified, then the value stored in bytes 4 to 6 shall be the start of the TAC range and the value stored in bytes 7 to 9 shall be the end of the TAC range for the given PLMN.

- PLMN Network Name Record Identifier

Contents:  
Identifier of operator name to be displayed

Coding:  
A value of '00' indicates that the name is to be taken from other sources, see TS 22.101 [24]

A value in the range '01' to 'FE' indicates the record number in EFPNN that shall be displayed as the registered PLMN name. It also indicates the record number in EFPNNI that may be displayed as the registered PLMN name icon.

NOTE: The intent of this file is to provide exceptions to the other sources of a network name. Care should be taken not to introduce too many PLMN entries. An excessive number of entries could result in a longer initialisation period.

\*\*\*\*\* 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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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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|  |  |  |  |  | |  | EFSPN | | |  | EFSMSR | | | | | |  | | EFCBMID | | |  | | EFSDN | |  | EFEXT2 | |
|  |  |  |  |  | |  | '6F46' | | |  | '6F47' | | | | | |  | | '6F48' | | |  | | '6F49' | |  | '6F4B' | |
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|  |  |  |  |  | |  | EFEXT3 | | |  | EFBDN | | | | | |  | | EFEXT5 | | |  | | EFCCP2 | |  | EFCBMIR | |
|  |  |  |  |  | |  | '6F4C' | | |  | '6F4D' | | | | | |  | | '6F4E' | | |  | | '6F4F' | |  | '6F50' | |
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|  |  |  |  |  | |  | EFEXT4 | | |  | EFEST | | | | | |  | | EFACL | | |  | | EFCMI | |  | EFSTART-HFN | |
|  |  |  |  |  | |  | '6F55' | | |  | '6F56' | | | | | |  | | '6F57' | | |  | | '6F58' | |  | '6F5B' | |
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|  |  |  |  |  | |  | '6F5C' | | |  | '6F60' | | | | | |  | | '6F61' | | |  | | '6F62' | |  | '6F73' | |
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|  |  |  |  |  | |  | EFACC | | |  | EFFPLMN | | | | | |  | | EFLOCI | | |  | | EFICI | |  | EFOCI | |
|  |  |  |  |  | |  | '6F78' | | |  | '6F7B' | | | | | |  | | '6F7E' | | |  | | '6F80' | |  | '6F81' | |
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|  |  |  |  |  | |  | EFICT | | |  | EFOCT | | | | | |  | | EFAD | | |  | | EFVGCS | |  | EFVGCSS | |
|  |  |  |  |  | |  | '6F82' | | |  | '6F83' | | | | | |  | | '6FAD' | | |  | | '6FB1' | |  | '6FB2' | |
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|  |  |  |  |  | |  | EFVBS | | |  | EFVBSS | | | | | |  | | EFeMLPP | | |  | | EFAaeM | |  | EFECC | |
|  |  |  |  |  | |  | '6FB3' | | |  | '6FB4' | | | | | |  | | '6FB5' | | |  | | '6FB6' | |  | '6FB7' | |
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|  |  |  |  |  | |  | '6FC3' | | |  | '6FC4' | | | | | |  | | '6FC5' | | |  | | '6FC6' | |  | '6FC7' | |
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|  |  |  |  |  | |  | '6FC8' | | |  | '6FC9' | | | | | |  | | '6FCA' | | |  | | '6FCB' | |  | '6FCC' | |
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|  |  |  |  |  | |  | '6FCD' | | |  | '6FCE' | | | | | |  | | '6FCF' | | |  | | '6FD0' | |  | '6FD1' | |
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|  |  |  |  |  | |  | '6FD2' | | |  | '6FD3' | | | | | |  | | '6FD4' | | |  | | '6FD5' | |  | '6FD6' | |
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|  |  |  |  |  | |  | '6FD7' | | |  | '6FD8' | | | | | |  | | '6FD9' | | |  | | '6FDA' | |  | '6FDB' | |
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|  |  |  |  |  | |  | '6FDC' | | |  | '6FDD' | | | | | |  | | '6FDE' | | |  | | '6FDF' | |  | '6FE2' | |
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|  |  |  |  |  | |  | EFEPSLOCI | | |  | EFEPSNSC | | | | | |  | | EFUFC | | |  | | EFUICCIARI | |  | EFNASCONFIG | |
|  |  |  |  |  | |  | '6FE3' | | |  | '6FE4' | | | | | |  | | '6FE6' | | |  | | '6FE7' | |  | '6FE8' | |
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|  |  |  |  |  | |  | EFPWS | | |  | EFFDNURI | | | | | |  | | EFBDNURI | | |  | | EFSDNURI | |  | EFIWL | |
|  |  |  |  |  | |  | '6FEC' | | |  | '6FED' | | | | | |  | | '6FEE' | | |  | | '6FEF' | |  | '6FF0' | |
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|  |  |  |  |  |  |  |  | |  |  |  | | | |  | |  | |  | |  |  | |  |  |  |  |  |
|  |  |  |  |  | |  | EFIPS | | |  | EFIPD | | | | | |  | | EFePDGId | | |  | | EFePDGSelection | |  | EFePDGIdEm | |
|  |  |  |  |  | |  | '6FF1' | | |  | '6FF2' | | | | | |  | | '6FF3' | | |  | | '6FF4' | |  | '6FF5' | |
|  |  |  |  |  |  |  |  | | |  |  | | | | | |  | |  | | |  | |  | |  |  | |
|  |  |  |  |  |  |  |  | |  |  |  | | | |  | |  | |  | |  |  | |  |  |  |  |  |
|  |  |  |  |  | |  | EFePDGSelectionEm | | |  | EFFromPreferred | | | | | |  | | EFIMSConfigData | | |  | | EF3GPPPSDATAOFF | |  | EF3GPPPSDATAOFFservicelist | |
|  |  |  |  |  | |  | '6FF6' | | |  | '6FF7' | | | | | |  | | '6FF8' | | |  | | '6FF9' | |  | '6FFA' | |
|  |  |  |  |  |  |  |  | | |  |  | | | | | |  | |  | | |  | |  | |  |  | |
|  |  |  |  |  |  |  |  | |  |  |  | | | |  | |  | |  | |  |  | |  |  |  |  |  |
|  |  |  |  |  | |  | EFTVCONFIG | | |  | EFXCAPConfigData | | | | | |  | | EFEARFCNList | | |  | | EF5GSLOCI | |  | EF5GS3GPPNSC | |
|  |  |  |  |  | |  | '6FFB' | | |  | '6FFC' | | | | | |  | | '6FFE | | |  | | '6FFF' | |  | '6F00' | |
|  |  |  |  |  |  |  |  | | |  |  | | | | | |  | |  | | |  | |  | |  |  | |
|  |  |  |  |  |  |  |  | |  |  |  | | | |  | |  | |  | |  |  | |  |  |  |  |  |
|  |  |  |  |  | |  | EF5GSN3GPPNSC | | |  | EFSteering\_of\_UE\_in\_VPLMN | | | | | |  | |  | | |  | |  | |  |  | |
|  |  |  |  |  | |  | '6F01 | | |  | '6F05' | | | | | |  | |  | | |  | |  | |  |  | |
|  |  |  |  |  | … |  |  | | |  |  | | | | |  | | |  | | |  | |  | |  |  | |
|  |  |  |  | DF5GS  '5FC0' | |  |  | | |  |  | | | | |  | | |  | | |  | |  | |  |  | |
|  |  |  |  |  |  | | |  |  | | | | |  | | |  | | |  | |  | |  |  | |
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|  |  |  |  |  |  |  | EF5GS3GPPLOCI | | |  | EF5GSN3GPPLOCI | | | | |  | | | EF5GS3GPPNSC | | |  | | EF5GSN3GPPNSC | |  | EF5GAUTHKEYS | |
|  |  |  |  |  |  |  | '4F01' | | |  | '4F02' | | | | |  | | | '4F03' | | |  | | '4F04' | |  | '4F05' | |
|  |  |  |  |  |  |  |  | | |  |  | | | | |  | | |  | | |  | |  | |  |  | |
|  |  |  |  |  |  |  |  | |  |  |  | |  | | |  | | |  | | |  | |  | |  |  | |
|  |  |  |  |  |  | |  | EFUAC\_AIC | | |  | EFSUCI\_Calc\_Info | | | | | | |  | EFOPL5G | | |  |  | |  |  | |
|  |  |  |  |  |  | |  | '4F06' | | |  | '4F07' | | | | | | |  | '4F08' | | |  |  | |  |  | |

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

### 5.3.xxx 5GS Operator PLMN List

Requirement: Service n°xxx "available".

Request: The ME performs the reading procedure with EFOPL5G.

\*\*\*\*\* 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 | | |
| … | | … | | … | | |
| '4F07' | | ProSe Policy Parameters | | Yes | | |
| '4F07' | | Subscriber Concealed Identifier Calculation Information | | Yes | | |
| '4F08' | | 5GS Operator PLMN List | | Yes | | |
| '4F09' | | ProSe Group Counter | | No | | |
| '4F10' | | ProSe Service Table | | Caution | |
| … | | … | | … | | |
| '6FC5' | | PLMN Network Name | | Yes | | |
| '6FC6' | | Operator Network List | | Yes | | |
| '6FC7' | | Mailbox Dialling Numbers | | Yes | | |
| ... | | … | | ... | |
| NOTE1: If EFIMSI is changed, the UICC should issue REFRESH as defined in 3GPP TS 31.111 [12] and update EFLOCI, EFPSLOCI, EFEPSLOCI and EF5GSLOCI 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. | | | | | | |

\*\*\*\*\* 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 | |
| … | | … | | … | |
| '4F07' | | Subscriber Concealed Identifier Calculation Information | | Operator dependent | |
| '4F08' | | 5GS Operator PLMN List | | Operator dependent | |
| '4F08' | | ProSe PLMN Parameters | | Operator dependent | |
| '4F09' | | ProSe Group Counter | | 'FF…FF' | |
| '4F10' | | ProSe Service Table | | Operator dependent | |
| '4F11' | | ProSe UsageInformationReportingConfiguration | | Operator dependent | |
| … | | … | | … | |
| '6FC5' | | PLMN Network Name | | Operator dependent | |
| '6FC6' | | Operator Network List | | Operator dependent | |
| '6FC7' | | Mailbox Dialling Numbers | | 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].

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

# H.9 List of SFI Values at the DF 5GS Level

|  |  |  |
| --- | --- | --- |
| File Identification | SFI | Description |
| '4F01' | '01' | 5GS 3GPP location information (Note) |
| '4F02' | '02' | 5GS non-3GPP location information (Note) |
| '4F03' | '03' | 5GS 3GPP Access NAS Security Context |
| '4F04' | '04' | 5GS non-3GPP Access NAS Security Context |
| '4F05' | '05' | 5G authentication keys |
| '4F06' | '06' | UAC Access Identities Configuration |
| '4F07' | '07' | Subscriber Concealed Identifier Calculation Information |
| '4F08' | '08' | 5GS Operator PLMN List |
| NOTE: If EFIMSI is changed, the UICC should issue REFRESH as defined in 3GPP TS 31.111 [12] and update EF5GS3GPPLOCI and EF5GSN3GPPLOCI accordingly. | | |

All other SFI values are reserved for future use.