**3GPP TSG- Meeting #**

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| *CR-Form-v11.4* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 |  | ME |  | Radio Access Network |  | Core Network |  |

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| ***Title:*** |  | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | CR [**CP-182236**](http://www.3gpp.org/ftp/tsg_ct/TSG_CT/TSGC_81_Gold_Coast/Docs/CP-182236.zip)agreed in CT81 was not implemented correctly. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Proposing changes from already agreed CR [**CP-182236**](http://www.3gpp.org/ftp/tsg_ct/TSG_CT/TSGC_81_Gold_Coast/Docs/CP-182236.zip)again so that those changes can be implemented correctly going forward.  Also cleaning up some tables that were already agreed to be cleaned up in the past, but were missed during implementation. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Changes agreed in plenary [**CP-182236**](http://www.3gpp.org/ftp/tsg_ct/TSG_CT/TSGC_81_Gold_Coast/Docs/CP-182236.zip)are not implemented in the specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.8, 4.4.11.1, 4.4.11.9, 4.7, 5.3.49, Annex A, Annex E, Annex H.10 (removed) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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°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 |

\*\*\*\*\* 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 | Control plane-based steering of UE in VPLMN |

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\*\*\*\*\* 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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|  |  |  |  |  | |  | EFTHRESHOLD | |  | EFPLMNwAcT | | | |  | | EFOPLMNwAcT | |  | EFHPLMNwAcT | |  | EFPSLOCI | |
|  |  |  |  |  | |  | '6F5C' | |  | '6F60' | | | |  | | '6F61' | |  | '6F62' | |  | '6F73' | |
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|  |  |  |  |  | |  | EFACC | |  | EFFPLMN | | | |  | | EFLOCI | |  | EFICI | |  | EFOCI | |
|  |  |  |  |  | |  | '6F78' | |  | '6F7B' | | | |  | | '6F7E' | |  | '6F80' | |  | '6F81' | |
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|  |  |  |  |  | |  | '6F82' | |  | '6F83' | | | |  | | '6FAD' | |  | '6FB1' | |  | '6FB2' | |
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|  |  |  |  |  | |  | EFVBS | |  | EFVBSS | | | |  | | EFeMLPP | |  | EFAaeM | |  | EFECC | |
|  |  |  |  |  | |  | '6FB3' | |  | '6FB4' | | | |  | | '6FB5' | |  | '6FB6' | |  | '6FB7' | |
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|  |  |  |  |  | |  | EFHiddenkey | |  | EFNETPAR | | | |  | | EFPNN | |  | EFOPL | |  | EFMBDN | |
|  |  |  |  |  | |  | '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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|  |  |  |  |  | |  | '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 | |
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|  |  |  |  |  | |  | '6FF6' | |  | '6FF7' | | | |  | | '6FF8' | |  | '6FF9' | |  | '6FFA' | |
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|  |  |  |  |  | |  | '6FFB' | |  | '6FFC' | | | |  | | '6FFD' | |  |  | |  |  | |
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|  |  |  |  | DFPHONEBOOK | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
|  |  |  |  | '5F3A' | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  | '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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|  |  |  |  | DFGSM-ACCESS | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
|  |  |  |  | '5F3B' | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  | EFKc | |  | EFKcGPRS | | | |  | | EFCPBCCH | |  | EFinvSCAN | |  |  | |
|  |  |  |  |  |  |  | '4F20' | |  | '4F52' | | | |  | | '4F63' | |  | '4F64' | |  |  | |
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|  |  |  |  | DFMexE | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
|  |  |  |  | '5F3C' | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  | EFMexE-ST | |  | EFORPK | | | |  | | EFARPK | |  | EFTPRK | |  | EFTKCDF | |
|  |  |  |  |  |  |  | '4F40' | |  | '4F41' | | | |  | | '4F42' | |  | '4F43' | |  | '4FXX' | |
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|  |  |  |  | DFSoLSA | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
|  |  |  |  | '5F70' | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  | EFSAI | |  | EFSLL | | | |  | |  | |  |  | |  |  | |
|  |  |  |  |  |  |  | '4F30' | |  | '4F31' | | | |  | |  | |  |  | |  |  | |
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|  |  |  |  | DFWLAN | |  |  | |  |  | | | |  | |  | |  |  | |  |  | |
|  |  |  |  | '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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|  |  |  |  |  |  |  | EFHPLMNDAI | |  |  | | | |  | |  | |  |  | |  |  | |
|  |  |  |  |  |  |  | '4F4B' | |  |  | | | |  | |  | |  |  | |  |  | |
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|  |  |  |  | DFHNB | |  |  | |  |  | | |  | | |  | |  |  | |  |  | |
|  |  |  |  | '5F50' | |  |  | |  |  | | |  | | |  | |  |  | |  |  | |
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|  |  |  |  |  |  |  | '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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|  |  |  |  | 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 | | |  | | |  | |  |  | |  |  | |
|  |  |  |  |  |  |  | '4F06' | |  | '4F07' | | |  | | |  | |  |  | |  |  | |

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

### 5.3.49 Control plane-based Steering of Roaming related procedures

If service n°127 is "available" in the USIM Service Table, the Registration Accept shall contain control plane based Steering of Roaming information during the initial registration procedure in a VPLMN.

The control plane-based Steering of Roaming procedure and the related information from the HPLMN are specified in 3GPP TS 23.122 [31].

\*\*\*\*\* 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' | | | ProSe Group Counter | | | No | | |
| '4F10' | | | ProSe Service Table | | | Caution | | |
| … | | | … | | | … | | |
| '6FF9' | | | 3GPPPSDATAOFF | | | Caution (Note 5) | | |
| '6FFA' | | | 3GPPPSDATAOFFservicelist | | | Caution (Note 5) | | |
| '6FFB' | | | TV Configuration | | | Yes | | |
| '6FFC' | | | XCAP Configuration Data | | | Yes | | |
| '6FFD' | | | EARFCN List for MTC/NB-IOT UEs | | | 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 | |
| '2F05' | | Preferred languages | | 'FF…FF' | |
| '2F06' | | Access rule reference | | Card issuer/operator dependent | |
| … | |  | |  | |
| '4F06' | | UAC Access Identities Configuration | | Operator dependent | |
| '4F07' | | ProSe Policy Parameters | | Operator dependent | |
| '4F07' | | Subscriber Concealed Identifier Calculation Information | | Operator dependent | |
| '4F08' | | ProSe PLMN Parameters | | Operator dependent | |
| '4F09' | | ProSe Group Counter | | 'FF…FF' | |
| … | |  | |  | |
| '6FFC’ | | XCAP Configuration Data | | Operator dependent | |
| '6FFD' | | EARFCN list for MTC/NB-IOT UEs | | 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 \*\*\*\*\*