**3GPP TSG-CT6 Meeting #91** **C6-180691**

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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v11.2.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **31.103** | **CR** | **0130** | **rev** | **1** | **Current version:** | **15.3.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps | **X** | ME | **X** | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Correction on implementation of CR0125 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | G+D MS | | | | | | | | | |
| ***Source to TSG:*** | CT6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI15 | | | | |  | ***Date:*** | | | 2018-11-29 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***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:*** | | CT6#87 agreed on CR0125 Rev-1 (C6-180073) on “Configuration parameter for handover between WLAN and EPS”.  CT#79 reviewed this CR and provided a new version (CR0125 Rev-2) that was ageed.  However 3GPP TS 31.103 v15.2.0 has implemented CR0125 Rev-1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Implement CR0125 Rev2 (CP-180124). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Misalignment with the CR agreed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.7, 4.2.18, 4.2.21, 4.3, 5.3.7, Annex A, 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:*** | |  | | | | | | | | |

\*\*\*\*\* First 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 | MCPTT |
|  | 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 |
|  |  |  |

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.

[…]

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

### 4.2.18 EFIMSConfigData (IMS Configuration Data)

If service n°18 is "available", this file shall be present.

This EF contains the IMS configuration data object as specified in 3GPP TS 24.167 [35].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier: '6FF8' | | 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 | IMS configuration data encoding | | | M | | 3 bytes |
| N/A | IMS configuration data | | | O | | Y bytes |

IMS configuration data object tags:

|  |  |
| --- | --- |
| IMS configuration data objects | Tag Values |
| IMS configuration data encoding | '80' |
| IMS configuration data | '81' |

Coding of the IMS configuration data encoding object

Contents:

Indicates the coding used for all the IMS configuration management objects stored in the EFIMSConfigData.

Coding:

A value of '00' indicates the XML format described in 3GPP TS 24.167 [35]. All other values are reserved.

Unused bytes shall be set to 'FF'.

IMS configuration data object:

Coding of the IMS Configuration data object

|  |  |  |  |
| --- | --- | --- | --- |
| Length | Description | Value | Status |
| 1 byte | IMS configuration data object Tag | '81' | M |
| X byte | IMS configuration data object Length | Y | M |
| Y bytes | IMS configuration data | - | M |

Contents:

The IMS configuration data can contain the following nodes and associated parent node from 3GPP TS 24.167 [35]:

1 Default\_EPS\_bearer\_context\_usage\_restriction\_policy node and its descendant nodes as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in 3GPP TS 24.229 [32] subclause L.2.2.5.1D.

2 Media\_type\_restriction\_policy node and its descendant nodes as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in 3GPP TS 24.229 [32] subclause 6.1.1.

3 Reliable\_18x\_policy node and its descendant nodes as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32] subclause 5.1.4.2.

4 EPS\_initial\_attach\_ConRefs node and its descendant nodes as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32] subclause L.2.2.1.

5 Precondition\_disabling\_policy node and its descendant nodes as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32] subclause 5.1.5A.

6 Timer\_Emerg-reg leaf as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32] subclause 5.1.6.1.

7 EPC\_via\_untrusted\_WLAN\_mean\_rekeying\_time leaf as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32] Annex R.2.2.1.

8 EPC\_via\_untrusted\_WLAN\_NAT\_keep\_alive\_time leaf as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32]  Annex R.2.2.1.

9 EPC\_via\_untrusted\_WLAN\_timeout\_period\_for\_liveness\_check leaf as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32]  Annex R.2.2.1.

10 Policy\_on\_local\_numbers node and its descendant nodes as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32] subclause 5.1.2A.1.5A.

11 SMSoIP\_usage\_policy leaf as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.341 [36]  subclause 5.2.1.3.

13 IMS\_Registration\_Policy node as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32]  Annex B.3.1.0a and TS 24.229 [32]  Annex L.3.1.0a.

xx Allow\_Handover\_PDN\_connection\_WLAN\_and\_EPS node as described in 3GPP TS 24.167 [35]. Procedures for use of this policy are described in TS 24.229 [32] Annex L.2.2.1 and TS 24.229 [32] Annex R.3.1.0.

Other nodes from 3GPP TS 24.167 [35] can be present in the IMS configuration data, however the ME shall ignore them.

Coding:

As specified in 3GPP TS 24.167 [35].

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







\*\*\*\*\* 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' | |  |

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 \*\*\*\*\*

\*\*\*\*\* 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 |
| 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 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 |

\*\*\*\*\* End of change \*\*\*\*\*