**3GPP TSG-CT WG6 Meeting #110e *draftC6-220149***

**E-meeting; 22th – 25th Feb. 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **31.122** | **CR** | **0072** | **rev** | **1** | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | Update TC of Contents of the Elementary Files (EF) | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Mobile | | | | | | | | | |
| ***Source to TSG:*** | CT6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | | ***Date:*** | | 2022-02-17 |
|  |  | | | |  | | |  | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | For EFIMSI, it requires that “If service n°130 is "available", this file shall not be available” in 31.102, and this special requirement needs to be tested.  Rel-16 information in the Applicability table is missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add EFIMSI and non-IMSI SUPI Type related test procedures for the TC of Contents of the Elementary Files (EF). Add á new option for non-IMSI SUPI Type related USIMs. Add a Rel-16 to the Applicability table. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The special requirement for EFIMSI is not tested. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3,6, 3.7. 7.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** |  |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of changes \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

3.6 Table of optional features

Support of several features is optional, release dependent or configuration dependent for the UICC. However, if a UICC states conformance with a specific 3GPP release, it is mandatory for the UICC to support all mandatory functions of that release, as stated in table A.1.

The "Option defined in Releases" column indicates the releases of the relevant core specification(s) in which the option is defined.

The supplier of the implementation shall state the support of possible options in table A.1.

A supplier may choose to use a single UICC and reconfigure it as required for each test; or may choose to use a number of UICCs which are based on the same platform but are configured differently. The supplier shall state the chosen solution and in the latter case shall confirm usage of identical platforms.

**Table A.1: Options**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Option** | **Status** | **Option defined in Release** | **Support** | **Mnemonic** |
| ID-1 UICC | O.1 | R99 |  | O\_ID1\_UICC |
| Plug-in UICC | O.1 | R99 |  | O\_PLUG\_IN\_UICC |
| Type 1 (i.e. UICC which always enters the negotiable mode after a warm reset) | O.2 | R99 |  | O\_TYPE\_1 |
| Type 2 (UICC which always enters the specific mode after a warm reset) | O.2 | R99 |  | O\_TYPE\_2 |
| T=0 | O.3 | R99 |  | O\_T0 |
| T=1 | O.3 | R99 |  | O\_T1 |
| Mono application UICC | O.4 | R99 |  | O\_MONO\_APP |
| Multi-application UICC | O.4 | R99 |  | O\_MULTI\_APP |
| Single verification capable UICC | O.5 | R99 |  | O\_SINGLE\_VER |
| Multi-verification capable UICC | O.5 | R99 |  | O\_MULTI\_VER |
| More than one logical channel supported | O | Rel-4 |  | O\_LOG\_CHANS |
| More than two logical channels supported | O | Rel-4 |  | O\_LOG\_CHANS\_34 |
| Shareable files | O | Rel-4 |  | O\_SHAREABLE |
| Non-shareable files | O | Rel-4 |  | O\_NON\_SHAREABLE |
| GET CHALLENGE | O | Rel-4 |  | O\_GET\_CHALLENGE |
| Mini-UICC | O.1 | Rel-6 |  | O\_MINI\_UICC |
| (F, D) = (512, 64) | O | Rel-6 |  | O\_F\_D\_512\_64 |
| Low impedance drivers | O | Rel-6 |  | O\_LOW\_IMPEDANCE |
| BER-TLV structure EFs | O | Rel-6 |  | O\_BER\_TLV\_FILES |
| GET IDENTITY when SUCI calculation performed by the USIM | O | Rel-15 |  | O\_GET\_IDENTITY\_SUCI |
| USIM supporting non-IMSI SUPI type | O | Rel-16 |  | O\_NON\_IMSI\_SUPI |

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3.7 Applicability table

**Table B.1: Applicability of tests**

| **Clause** | **Description** | **Test procedure** | **Tested features defined in Release** | **R99 UICC** | **Rel-4 UICC** | **Rel-5 UICC** | **Rel-6 UICC** | **Rel-7 UICC** | **Rel-8 UICC** | **Rel-9 UICC** | **Rel-10 UICC** | **Rel-11 UICC** | **Rel-12 UICC** | **Rel-13 UICC** | **Rel-14 UICC** | **Rel-15 UICC** | **Rel-16 UICC** | **Support** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6.1.1 | ID-1 UICC | 1 | R99 | C001 | C001 | C001 | C001 | C001 | C001 | C001 | C001 | C001 | C001 | C001 | C001 | C001 | C001 |  |
| 6.1.2 | Plug-in UICC | 1 | R99 | C002 | C002 | C002 | C002 | C002 | C002 | C002 | C002 | C002 | C002 | C002 | C002 | C002 | C002 |  |
| 6.1.3 | Temperature range for card operation | 1 | R99 | M | M | M |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 2 | Rel-6 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.1.4 | Contacts | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.1.5 | Mini-UICC | 1 | Rel-6 |  |  |  | C003 | C003 | C003 | C003 | C003 | C003 | C003 | C003 | C003 | C003 | C003 |  |
| 6.2.1.1 | Vcc – Voltage limits | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.2.1.2 | Vcc - Idle current limits | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.2.1.3 | Vcc - Current limits in clk-stop-mode | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.2.2.1 | RST - Static operation | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.2.3.1 | Vpp - Static operation | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.2.4.1 | CLK - Frequency and duty cycle | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.2.4.2 | Voltage and current | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.2.5.1 | I/O - Voltage and current | 1 | R99 | M | M | M | C018 | C018 | C018 | C018 | C018 | C018 | C018 | C018 | C018 | C018 | C018 |  |
|  |  | 2 | Rel-6 |  |  |  | C019 | C019 | C019 | C019 | C019 | C019 | C019 | C019 | C019 | C019 | C019 |  |
|  |  | 3 | Rel-6 |  |  |  | C020 | C020 | C020 | C020 | C020 | C020 | C020 | C020 | C020 | C020 | C020 |  |
| 6.3.1.1 | Supply voltage switching - Supply voltage classes | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.3.1.2 | Supply voltage switching - Power consumption of the UICC during ATR | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.3.1.3 | Supply voltage switching - Application related electrical parameters | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.3.2.1 | ATR - Major capabilities | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.3.2.2 | ATR - Speed enhancement | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.3.2.3 | Global Interface bytes | 1 | Rel-6 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.3.3 | PPS procedure | 1 | R99 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.3.4 | Reset procedures | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 3 | R99 |  |  |  | C004 | C004 | C004 | C004 | C004 | C004 | C004 | C004 | C004 | C004 | C004 |  |
|  |  | 4 | R99 |  |  |  | C005 | C005 | C005 | C005 | C005 | C005 | C005 | C005 | C005 | C005 | C005 |  |
| 6.3.5 | Clock stop mode | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.3.6 | Bit/character duration and sampling time | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.3.7 | Error handling | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.3.8 | Compatibility | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.4.1 | Physical Layer | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.4.2.1 | Character Frame | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.4.2.2 | Transmission Protocol T=0 | 1 | R99 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 |  |
| 6.4.2.3.1.1 | T=1 - Information field size | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.1.2 | T=1 - Character waiting integer | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.1.3 | T=1 - Character waiting time | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.1.4 | T=1 - Block guard time | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.1.5 | T=1 - Waiting time extension | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.4.2.3.1.6 | T=1 - Error detection code | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.2.1.1 | T=1 - Prologue field - Node address byte | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.2.1.2 | T=1 - Prologue field - Protocol Control Byte | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.4.2.3.2.1.3 | T=1 - Prologue field - Length | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.2.1.4 | T=1 - Information field | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.2.3 | T=1 - Epilogue field | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.3 | T=1 - Error free operation | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.4.1 | T=1 - Error Handling - Protocol initialisation | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.4.2.1 | T=1 - Error Handling - Sending invalid blocks to the UICC | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.2.3.5 | T=1 - Chaining | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.3.1.1 | Transportation of an APDU using T=0 - Case 1 | 1 | R99 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 |  |
| 6.4.3.1.2 | Transportation of an APDU using T=0 - Case 2 | 1 | R99 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 |  |
| 6.4.3.1.3 | Transportation of an APDU using T=0 - Case 3 | 1 | R99 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 |  |
| 6.4.3.1.4 | Transportation of an APDU using T=0 - Case 4 | 1 | R99 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 |  |
| 6.4.3.1.5.1 | Use of Procedure Bytes '61xx' and '6Cxx' - Case 2 Commands | 1 | R99 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 |  |
| 6.4.3.1.5.2 | Use of Procedure Bytes '61xx' and '6Cxx' - Case 4 Commands | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.4.3.2.1 | Transportation of an APDU using T=1 - Case 1 | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.3.2.2 | Transportation of an APDU using T=1 - Case 2 | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.3.2.3 | Transportation of an APDU using T=1 - Case 3 | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.3.2.4 | Transportation of an APDU using T=1 - Case 4 | 1 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.4.4 | Application Layer | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.5.1 | UICC Application structure | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.2.1 | Dedicated files | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.5.2.2.1 | Transparent EF | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.2.2.2 | Linear fixed EF | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.2.2.3 | Cyclic EF | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.2.2.4 | BER-TLV structure EF | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.5.3 | File referencing | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.5.4.1 | SELECT by File Identifier Referencing | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.4.2 | SELECT by Path Referencing | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.4.3 | Short File Identifier | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.5.1.1 | SELECT by DF Name | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.5.1.2 | SELECT by partial DF Name | 1 | R99 |  |  |  | C009 | C009 | C009 | C009 | C009 | C009 | C009 | C009 | C009 | C009 | C009 |  |
|  |  | 2 | R99 | C008 | C008 | C008 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 3 | R99 |  |  |  | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 |  |
| 6.5.5.2 | Application session activation | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.5.3 | Application session termination | 1 | R99 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 | C008 |  |
|  |  | 2 | R99 | M | M | M |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 3 | Rel-6 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 4 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 5 | Rel-4 |  |  |  | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 |  |
| 6.5.5.4 | Application session reset | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.5.5 | GSM/USIM application interaction and restrictions | 1 | R99 | M | M | M |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.5.6 | Reservation of file IDs | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 | M | M | M |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 3 | R99 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.5.7.1 | No Logical Channel Support | 1 | Rel-4 |  |  |  | C011 | C011 | C011 | C011 | C011 | C011 | C011 | C011 | C011 | C011 | C011 |  |
| 6.5.7.2 | Logical Channels - Basic Behaviour | 1 | Rel-4 |  |  |  | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 |  |
|  |  | 2 | Rel-4 |  |  |  | C012 | C012 | C012 | C012 | C012 | C012 | C012 | C012 | C012 | C012 | C012 |  |
| 6.5.7.3 | Opening a Logical Channel from the Basic Channel | 1 | Rel-4 |  |  |  | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 |  |
| 6.5.7.4 | Opening a Logical Channel from a Non-Basic Channel | 1 | Rel-4 |  |  |  | C013 | C013 | C013 | C013 | C013 | C013 | C013 | C013 | C013 | C013 | C013 |  |
| 6.5.7.5 | Opening a Logical Channel on Non-Shareable Files | 1 | Rel-4 |  |  |  | C014 | C014 | C014 | C014 | C014 | C014 | C014 | C014 | C014 | C014 | C014 |  |
| 6.5.7.6 | Logical Channels and Shareable Files | 1 | Rel-6 |  |  |  | C014 | C014 | C014 | C014 | C014 | C014 | C014 | C014 | C014 | C014 | C014 |  |
|  |  | 2 | Rel-4 |  |  |  | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 |  |
| 6.5.7.7 | Logical channels - Command Interdependencies | 1 | Rel-4 |  |  |  | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 |  |
| 6.5.7.8 | Logical channels - Consistency of File Updates | 1 | Rel-4 |  |  |  | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 | C015 |  |
| 6.6.1 | Supported security features | 1 | R99 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 |  |
|  |  | 2 | R99 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 |  |
| 6.6.2 | Security architecture | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.6.3 | Security environment | 1 | R99 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 |  |
| 6.6.4 | PIN definitions | 1 | R99 | C016 | C016 | C016 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 2 | R99 |  |  |  | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 |  |
|  |  | 3 | R99 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 |  |
| 6.6.5 | PIN and key reference relationship | 1 | R99 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 |  |
|  |  | 2 | R99 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 |  |
| 6.7.1 | Mapping principles | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.7.2.1 | Status Conditions Returned by the UICC | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.7.2.2 | Status Words of the Commands | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.7.3 | Logical Channels | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.8.1.1 | SELECT | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.2 | STATUS | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.3 | READ BINARY | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.4 | UPDATE BINARY | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.5 | READ RECORD | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 3 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.6 | UPDATE RECORD | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 3 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.7 | SEARCH RECORD | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 3 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 4 | R99 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 6.8.1.8 | INCREASE | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.9 | VERIFY PIN | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | Rel-4 |  |  |  | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 |  |
|  |  | 3 | R99 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.10 | CHANGE PIN | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | Rel-4 |  |  |  | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 |  |
| 6.8.1.11 | DISABLE PIN | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.12 | ENABLE PIN | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.13 | UNBLOCK PIN | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 3 | R99 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 4 | Rel-4 |  |  |  | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 | C010 |  |
| 6.8.1.14 | DEACTIVATE FILE | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.15 | ACTIVATE FILE | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.8.1.16 | AUTHENTICATE | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.8.1.17 | MANAGE CHANNEL | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.8.1.18 | GET CHALLENGE | 1 | Rel-4 |  |  |  | C021 | C021 | C021 | C021 | C021 | C021 | C021 | C021 | C021 | C021 | C021 |  |
| 6.8.2.1 | RETRIEVE DATA | 1 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
|  |  | 2 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
|  |  | 3 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
| 6.8.2.2 | SET DATA | 1 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
|  |  | 2 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
|  |  | 3 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
|  |  | 4 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
| 6.8.2.3 | BER-TLV structure files | 1 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
|  |  | 2 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
|  |  | 3 | Rel-6 |  |  |  | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 | C022 |  |
| 6.8.2.4 | Logical channel interactions | 1 | Rel-6 |  |  |  | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 |  |
|  |  | 2 | Rel-6 |  |  |  | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 |  |
|  |  | 3 | Rel-6 |  |  |  | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 | C023 |  |
| 6.9.1.1 | GET RESPONSE | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 6.10 | Application independent files | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 7.1 | Contents of the Elementary Files (EF) | 1 | R99 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
|  |  | 2 | R99 | M | M | M |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 3 | Rel-16 |  |  |  |  |  |  |  |  |  |  |  |  |  | Cxxx |  |
|  |  | 4 | Rel-16 |  |  |  |  |  |  |  |  |  |  |  |  |  | Cxxy |  |
| 7.2 | Security features | 1 | R99 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 |  |
| 7.3.1 | AUTHENTICATE | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 7.3.2.1 | Security management | 1 | R99 | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |
| 7.3.2.2 | Status Words of the Commands | N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.3.3 | GET IDENTITY | 1 | Rel-15 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | C024 | C024 |  |
| 8.1.1 | GSM/USIM application interaction and restrictions | 1 | Rel-6 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 8.2.1 | Transmission speed | 1 | Rel-6 |  |  |  | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 | C006 |  |
|  |  | 2 | Rel-6 |  |  |  | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 | C007 |  |
| 8.2.2 | Voltage classes | 1 | Rel-6 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 8.2.3 | File Control Parameters (FCP) | 1 | Rel-6 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |
| 8.3 | User verification and file access conditions | 1 | Rel-6 |  |  |  | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 | C016 |  |
|  |  | 2 | Rel-6 |  |  |  | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 | C017 |  |
| 8.4.1 | Contents of the EFs at the MF level | 1 | Rel-6 |  |  |  | M | M | M | M | M | M | M | M | M | M | M |  |

**Table B.1: Applicability of tests (continued)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C001 IF O\_ID1\_UICC THEN M ELSE N/A  C002 IF O\_PLUG\_IN\_UICC THEN M ELSE N/A  C003 IF O\_MINI\_UICC THEN M ELSE N/A  C004 IF O\_TYPE\_1 THEN M ELSE N/A  C005 IF O\_TYPE\_2 THEN M ELSE N/A  C006 IF O\_T0 THEN M ELSE N/A  C007 IF O\_T1 THEN M ELSE N/A  C008 IF O\_MULTI\_APP THEN M ELSE N/A  C009 IF O\_MONO\_APP THEN M ELSE N/A  C010 IF O\_LOG\_CHANS THEN M ELSE N/A  C011 IF (NOT O\_LOG\_CHANS) THEN M ELSE N/A  C012 IF O\_LOG\_CHANS\_34 THEN M ELSE N/A  C013 IF (O\_LOG\_CHANS\_34 AND O\_SHAREABLE) THEN M ELSE N/A  C014 IF (O\_LOG\_CHANS AND O\_NON\_SHAREABLE) THEN M ELSE N/A  C015 IF (O\_LOG\_CHANS AND O\_SHAREABLE) THEN M ELSE N/A  C016 IF O\_MULTI\_VER THEN M ELSE N/A  C017 IF O\_SINGLE\_VER THEN M ELSE N/A  C018 IF (NOT O\_F\_D\_512\_64) THEN M ELSE N/A  C019 IF O\_F\_D\_512\_64 THEN M ELSE N/A  C020 IF O\_LOW\_IMPEDANCE THEN M ELSE N/A  C021 IF O\_GET\_CHALLENGE THEN M ELSE N/A  C022 IF O\_BER\_TLV\_FILES THEN M ELSE N/A  C023 IF (O\_BER\_TLV\_FILES AND O\_LOG\_CHANS AND O\_SHAREABLE) THEN M ELSE N/A  C024 IF O\_GET\_IDENTITY\_SUCI THEN M ELSE N/A  Cxxx IF (NOT O\_NON\_IMSI\_SUPI) THEN M ELSE N/A  Cxxy IF O\_NON\_IMSI\_SUPI THEN M ELSE N/A | | | | | | | | | | | | | | | | | | |



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

## 7.1 Contents of the Elementary Files (EF)

The clause provides tests to ensure that the IUT contains all of the EFs need for a Telecom session.

### 7.1.1 Definition and applicability

See clause 3.5.3.

### 7.1.2 Conformance requirement

The following conformance requirements refer to the tables for each EF in TS 31.102 [3], clause 4.

|  |  |  |
| --- | --- | --- |
| CR1 | Each existing EF shall be selectable under the respective DF using the identifier given in the table for that EF. | M |
| CR2 | All mandatory EFs shall exist on the UICC. | M |
| CR3 | The identifier of the EF shall be that given in the table for that EF. | M |
| CR4 | The type and structure of the EF shall be that given in the table for that EF. | M |
| CR5 | The file size shall be at least that given in the table for that EF. | M |
| CR6 | The short file identifier shall be those given in the table for that EF. | M |
| CR7 | The short file identifier shall exist if it is mandatory in the table for that EF. This includes EFs with SFI indicated by 'YY'. | (R99) Rel-6 - … |
| CR8 | The access conditions shall be those given in the table for that EF. | M |
| CR9 | If no SFI is indicated in the table for the EF, the EF shall not have an SFI. | (R99) Rel-6 - … |
| CR10 | The short file identifier shall exist if it is mandatory in the table for that EF. | M |
| CR11 | If USIM supporting non-IMSI SUPI type service n°130 is "available", EFSUPI\_NAI shall be present, EFIMSI shall not be available and the length of the MNC in the IMSI coded in EFAD shall be set to 0. | Rel-16-… |
| CR12 | If IMSI based USIM service n°130 is "not available", EFSUPI\_NAI shall not be present, EFIMSI shall be available and the length of the MNC in the IMSI shall be identical to the value coded in EFAD. | Rel-16-… |

Reference: TS 31.102 [3], clause 4.

### 7.1.3 Test purpose

To verify that the UICC conforms to the above requirements.

NOTE: The contents and coding of the data within the files are not tested, but shall conform to the respective contents and coding of the data given for each file in TS 31.102 [3], clause 4.

### 7.1.4 Method of test

**Initial conditions 1**

1) The UICC shall be connected to a ME simulator.

**Test procedure 1**

a) The ME simulator shall reset the UICC.

b) The ME simulator shall send a SELECT command to the UICC to select the respective DF for the first EF in clause 4 of TS 31.102 [3].

*The status condition returned by the UICC shall be SW1 = '90', SW2 = '00' - normal ending of the command [CR1].*

c) The ME simulator shall send a SELECT command to the UICC to select the first EF in clause 4 of TS 31.102 [3].

*The status condition returned by the UICC shall be SW1 = '90', SW2 = '00' - normal ending of the command [CR1, CR2].*

*The following shall be true of the response data:*

*- TLV DO with tag '83' shall indicate the identifier of the file selected [CR3];*

*- TLV DO with tag '82' shall not be '38' and '78' indicating EF [CR4];*

*- TLV DO with tag '82' shall indicate the structure given in the table for the file in clause 4 of TS 31.102 [3] [CR4];*

*- TLV DO with tag '80' shall be at least the minimum file size given in the table for the file in clause 4 of TS 31.102 [3]. if the EF is transparent [CR5];*

*- Byte 5 and 6 of TLV DO with tag '82' shall be in accordance with the record length given in the table for the file in clause 4 of TS 31.102 [3]. if the EF is linear fixed or cyclic [CR5];*

*- TLV DO with tag '80' shall be an integer multiple of the record length if the EF is linear fixed or cyclic [CR5];*

*- If a value for the SFI is specified in the table for the file in clause 4 of TS 31.102 [3] and the value of the specified SFI is equal to the 5 least significant bits (bits b5 to b1) of the file identifier for the file, then the TLV DO with tag '88'shall either be absent, or shall be present with the specified SFI value [CR6, CR7];*

*- If a value for the SFI is specified in the table for the file in clause 4 of TS 31.102 [3] and the value of the specified SFI is not equal to the 5 least significant bits (bits b5 to b1) of the file identifier for the file, then the TLV DO with tag '88'shall be present with the specified SFI value [CR6, CR7];*

*- If an SFI is specified in the table for the file in clause 4 of TS 31.102 [3] but no actual value is specified (i.e. 'YY' is used), then the TLV DO with tag '88'shall either be absent, or shall be present with a value of length 1 [CR6, CR7];*

*- If no SFI is specified in the table for the file in clause 4 of TS 31.102 [3], then the TLV DO with tag '88'shall be present with an empty value [CR9]*

*- TLV DO with tag '86' or '8B' or '8C' or 'AB' shall indicate the access conditions given in the table for the file in clause 4 of TS 31.102 [3] [CR8].*Note: if the access conditions indicate referenced security, the referenced record in the EFARR may be read at this point if necessary.

d) Steps a) to c) shall be repeated for the remaining mandatory EFs clause 4 of TS 31.102 [3].

e) Steps a) to c) shall be repeated for the existing optional EFs clause 4 of TS 31.102 [3].

**Test procedure 2**

a) The ME simulator shall reset the UICC.

b) The ME simulator shall send a SELECT command to the UICC to select the respective DF for the first EF in clause 4 of TS 31.102 [3].

*The status condition returned by the UICC shall be SW1 = '90', SW2 = '00' - normal ending of the command [CR1].*

c) The ME simulator shall send a SELECT command to the UICC to select the first EF in clause 4 of TS 31.102 [3].

*The status condition returned by the UICC shall be SW1 = '90', SW2 = '00' - normal ending of the command [CR1, CR2].*

*The following shall be true of the response data:*

*- TLV DO with tag '83' shall indicate the identifier of the file selected [CR3];*

*- TLV DO with tag '82' shall not be '38' and '78' indicating EF [CR4];*

*- TLV DO with tag '82' shall indicate the structure given in the table for the file in clause 4 of TS 31.102 [3] [CR4];*

*- TLV DO with tag '80' shall be at least the minimum file size given in the table for the file in clause 4 of TS 31.102 [3]. if the EF is transparent [CR5];*

*- Byte 5 and 6 of TLV DO with tag '82' shall be in accordance with the record length given in the table for the file in clause 4 of TS 31.102 [3]. if the EF is linear fixed or cyclic [CR5];*

*- TLV DO with tag '80' shall be an integer multiple of the record length if the EF is linear fixed or cyclic [CR5];*

*- TLV DO with tag '88' shall indicate the short file identifier given in the table for the file in clause 4 of TS 31.102 [3] [CR6, CR10];*

*- TLV DO with tag '86' or '8B' or '8C' or 'AB' shall indicate the access conditions given in the table for the file in clause 4 of TS 31.102 [3] [CR8].*Note: if the access conditions indicate referenced security, the referenced record in the EFARR may be read at this point if necessary.

d) Steps a) to c) shall be repeated for the remaining mandatory EFs clause 4 of TS 31.102 [3].

e) Steps a) to c) shall be repeated for the existing optional EFs clause 4 of TS 31.102 [3].

**Initial conditions 2**

1. The UICC shall be connected to a ME simulator.
2. The AID provided in EFDIR has a PIX coding as defined in Annex O of 3GPP TS 31.101 [2].
3. The ME simulator shall reset the UICC.
4. The ME simulator selects a Rel-16 or upwards IMSI based USIM in accordance to Annex N of TS 31.102 [3]; Service n°130 shall be "not available" in the USIM.

**Test procedure 3**

a) The ME simulator shall send a SELECT command to the UICC to select EFIMSI.

*The status condition returned by the UICC shall be SW1 = '90', SW2 = '00' - normal ending of the command [CR1, CR2].*

*The following shall be true of the response data:*

*- TLV DO with tag '83' shall indicate the identifier of the file selected [CR3];*

*- TLV DO with tag '82' shall not be '38' and '78' indicating EF [CR4];*

*- TLV DO with tag '82' shall indicate the structure given in the table for the file in clause 4 of TS 31.102 [3] [CR4];*

*- TLV DO with tag '80' shall be at least the minimum file size given in the table for the file in clause 4 of TS 31.102 [3] [CR5];*

*- TLV DO with tag '88'shall be present with the SFI value: '07' [CR6, CR7];*

*- TLV DO with tag '86' or '8B' or '8C' or 'AB' shall indicate the access conditions given in the table for the file in clause 4 of TS 31.102 [3] [CR8].*Note: if the access conditions indicate referenced security, the referenced record in the EFARR may be read at this point if necessary.

b) The ME simulator shall send a SELECT command to the UICC to select DF5GS.

*The status condition returned by the UICC shall be SW1 = '90', SW2 = '00' - normal ending of the command [CR1]].*

c) The ME simulator shall send a SELECT command to the UICC to select EFSUPI\_NAI.

*The status condition returned by the UICC shall be SW1 = '6A', SW2 = '82' - File not found [CR11].*

**Initial conditions 3**

1. The UICC shall be connected to a ME simulator.
2. The AID provided in EFDIR has a PIX coding as defined in Annex O of 3GPP TS 31.101 [2].
3. The ME simulator shall reset the UICC.
4. The selected USIM is a Rel-16 or upwards USIM supporting non-IMSI SUPI Type in accordance to Annex N of TS 31.102; Service n°130 shall be "available" in the USIM.

**Test procedure 4**

a) The ME simulator shall send a SELECT command to the UICC to select EFIMSI.

*The status condition returned by the UICC shall be SW1 = '6A', SW2 = '82' - File not found and the length of the MNC in the IMSI coded in EFAD shall be set to 0 [CR11].*

b) The ME simulator shall send a SELECT command to the UICC to select DF5GS.

*The status condition returned by the UICC shall be SW1 = '90', SW2 = '00' - normal ending of the command [CR1].*

c) The ME simulator shall send a SELECT command to the UICC to select EFSUPI\_NAI.

*The status condition returned by the UICC shall be SW1 = '90', SW2 = '00' - normal ending of the command [CR1, CR11].The following shall be true of the response data:*

*- TLV DO with tag '83' shall indicate the identifier of the file selected [CR3];*

*- TLV DO with tag '82' shall not be '38' and '78' indicating EF [CR4];*

*- TLV DO with tag '82' shall indicate the structure given in the table for the file in clause 4 of TS 31.102 [3] [CR4];*

*- TLV DO with tag '80' shall be at least the minimum file size given in the table for the file in clause 4 of TS 31.102 [3] [CR5];*

*- TLV DO with tag '88'shall bebe present with the SFI value: '09' [CR6, CR7];*

*- TLV DO with tag '86' or '8B' or '8C' or 'AB' shall indicate the access conditions given in the table for the file in clause 4 of TS 31.102 [3] [CR8].*Note: if the access conditions indicate referenced security, the referenced record in the EFARR may be read at this point if necessary.\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Next of Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*