

Agenda Item: 5.3.3
Source: T3
Title: CRs to TS 31.111
Document for: approval

This document contains the following change requests that are approved by 3GPP TSG T3 and forwarded to 3GPP TSG T#26 for approval:

| Doc-2nd-Level | Spec | CR | Rev | Phase | Subject | Cat | Version-Current | Version-New | Workitem |
|---------------|--------|-----|-----|-------|---|-----|-----------------|-------------|----------|
| T3-040785 | 31.111 | 129 | - | Rel-6 | Correction to allow "3G Session Reset Refresh" to change the IMSI | F | 6.3.0 | 6.4.0 | TEI6 |
| T3-040826 | 31.111 | 128 | - | Rel-6 | Clarification of Terminal Profile procedure | B | 6.3.0 | 6.4.0 | TEI6 |
| T3-040836 | 31.111 | 123 | - | Rel-4 | Correction for non 3GPP references | F | 4.12.0 | 4.13.0 | TEI4 |
| T3-040837 | 31.111 | 124 | - | Rel-5 | Correction for non 3GPP references | F | 5.7.0 | 5.8.0 | TEI5 |
| T3-040838 | 31.111 | 125 | - | Rel-6 | Correction for non 3GPP references | F | 6.3.0 | 6.4.0 | TEI6 |
| T3-040839 | 31.111 | 126 | - | Rel-6 | Terminal Profile alignment with ETSI TS 102 223 | F | 6.3.0 | 6.4.0 | TEI6 |
| T3-040840 | 31.111 | 127 | - | Rel-6 | Correction for a missing letter class in Annex A | F | 6.3.0 | 6.4.0 | TEI6 |
| T3-040842 | 31.111 | 131 | - | Rel-6 | Display Multimedia Messages from the USIM | B | 6.3.0 | 6.4.0 | UEMMS |
| T3-040871 | 31.111 | 130 | - | Rel-6 | UICC initiated GBAU Bootstrapp | B | 6.3.0 | 6.4.0 | SEC1-SC |

CHANGE REQUEST

⌘ **31.111 CR 129** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|--|-----------------|--|
| Title: | ⌘ Correction to allow "3G Session Reset Refresh" to change the IMSI | | |
| Source: | ⌘ T3 | | |
| Work item code: | ⌘ TEI6 | Date: | ⌘ 18/11/2004 |
| Category: | ⌘ F | Release: | ⌘ Rel-6 |
| | <i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction 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 . | | <i>Use <u>one</u> of the following releases:</i> Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7) |

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| Reason for change: | ⌘ The specification contradicts itself and it is impossible to get a correct implementation of "3G Session Reset Refresh" when IMSI is changed. "6.4.7.1 EF _{IMSI} changing procedure" currently states "If an EF _{IMSI} is to be updated, neither EF _{IMSI} nor EF _{LOCI} shall be updated in the UICC before the 3G session termination procedure has been completed by the ME." "3G Session Reset" Refresh currently allows for the IMSI to be changed but the procedure does not include a "3G Session Termination" (currently it is specified that the ME carries out USIM initialisation starting after PIN verification procedure. For Release 6 all this information has been moved to 102.223 as follows QUOTE NAA Session Reset. This mode is equivalent to "NAA Initialization and File Change Notification" mode and in addition requires the terminal to perform a specific NAA procedure. This mode is only applicable on a 3G platform, and shall not be used on a 2G platform. ENDQUOTE There is now the additional problem that the "specific NAA procedure" is not specified. |
| Summary of change: | ⌘ Add extra description to allow implementers to get a working feature. |
| Consequences if not approved: | ⌘ Performing IMSI change in collaboration with "3G Session Reset Refresh" will result in unpredictable behaviour in the UE |

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|------------------------------|---|--|---|---|---|--|--|---|--|---|
| Clauses affected: | ⌘ | 6.4.7 | | | | | | | | |
| Other specs affected: | | <table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table> | Y | N | X | | | X | | X |
| | Y | N | | | | | | | | |
| | X | | | | | | | | | |
| | X | | | | | | | | | |
| | X | | | | | | | | | |
| | ⌘ | 31.102 (see T3-040784) | | | | | | | | |
| | | Other core specifications | | | | | | | | |
| | | Test specifications | | | | | | | | |
| | | O&M Specifications | | | | | | | | |
| Other comments: | ⌘ | T3-040784 also needs to be approved to enable this feature to work | | | | | | | | |

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
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6.4.7 REFRESH

See TS 102 223 [32] except for "3G Session Reset" which is defined as follows.

3G Session Reset. This mode causes the ME to reset the 3G session, in accordance with the 3G session reset procedure defined in TS 31.102 [14]. Subsequently, the ME performs the "USIM Initialization and File Change Notification" procedure and the MM Restart procedure as defined in TS 23.122 [7].

6.4.7.1 EF_{IMSI} changing procedure

When an EF_{IMSI} is changed via Data Download or a USAT application and a REFRESH command is issued by the UICC the following rules apply to the UICC and ME:

- USIM Initialization. This command shall not be used if an EF_{IMSI} is changed, as the behaviour of the UE is unpredictable;
- File Change Notification. This command shall not be used if an EF_{IMSI} is changed, as the behaviour of the UE is unpredictable;
- USIM Initialization and File Change Notification. This command shall not be used if an EF_{IMSI} is changed, as the behaviour of the UE is unpredictable;
- USIM Initialization and Full File Change Notification. This command shall not be used if an EF_{IMSI} is changed, as the behaviour of the UE is unpredictable;
- UICC Reset. Normal UICC Reset procedure is carried out;
- USIM Application Reset. Normal USIM Application Reset procedure is carried out;
- 3G Session Reset. Normal 3G Session Reset procedure is carried out.

If an EF_{IMSI} is to be updated, neither EF_{IMSI} nor EF_{LOCI} shall be updated in the UICC before the 3G session termination procedure has been completed by the ME.

CHANGE REQUEST

⌘ **31.111 CR 128** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|--|---------------------------|---|
| Title: | ⌘ Clarification of Terminal Profile procedure | | |
| Source: | ⌘ T3 | | |
| Work item code: | ⌘ TEI | Date: | ⌘ 19/11/2004 |
| Category: | ⌘ B | Release: | ⌘ Rel-6 |
| | Use <u>one</u> of the following categories: | | Use <u>one</u> of the following releases: |
| | F (correction) | Ph2 (GSM Phase 2) | |
| | A (corresponds to a correction in an earlier release) | R96 (Release 1996) | |
| | B (addition of feature), | R97 (Release 1997) | |
| | C (functional modification of feature) | R98 (Release 1998) | |
| | D (editorial modification) | R99 (Release 1999) | |
| | Detailed explanations of the above categories can be found in 3GPP TR 21.900 . | Rel-4 (Release 4) | |
| | | Rel-5 (Release 5) | |
| | | Rel-6 (Release 6) | |
| | | Rel-7 (Release 7) | |

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| Reason for change: | ⌘ Applets and applications that were designed for earlier releases may expect a Terminal Profile only during the initialisation procedure. Due to the lack of other mechanisms, the Terminal Profile could have been used for startup processing, etc. Allowing additional Terminal Profiles, as introduced in TS 102 223 v6.4.0, could cause problems, if cards with these applications were used in new phones. |
| Summary of change: | ⌘ Clarify that Terminal Profiles are only allowed within the initialisation sequence, unless additional Terminal Profiles are activated in the UST. |
| Consequences if not approved: | ⌘ Backwards compatibility problems with applications on existing cards used in new phones. |

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|------------------------------|--|---------------------|---|---|--|--|--|--|--|---------------------------|-------------|
| Clauses affected: | ⌘ 5.1 | | | | | | | | | | |
| Other specs affected: | <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table> | Y | N | X | | | | | | Other core specifications | ⌘ TS 31.102 |
| Y | N | | | | | | | | | | |
| X | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | Test specifications | | | | | | | | | |
| | | O&M Specifications | | | | | | | | | |
| Other comments: | ⌘ related to T3-040674 | | | | | | | | | | |

5 Profile download

5.1 Procedure

The profile download instruction is sent by the ME to the UICC as part of the UICC initialization procedure. The [UICC initialization](#) procedure is specified in 3GPP TS 31.101 [13].

[If the UICC indicates the support of "Additional TERMINAL PROFILE after UICC activation" in its USIM Service Table, the ME shall handle the profile download procedure as specified in TS 102 223 \[32\].](#)

[If the UICC does not indicate the support of "Additional TERMINAL PROFILE after UICC activation" in its USIM Service Table, the profile download instruction shall only be sent by the ME to the UICC as part of the UICC initialization procedure.](#)

The profile(s) sent by the ME shall state the facilities relevant to USAT that are supported by the ME.

~~See additional details in TS 102 223 [32].~~

CHANGE REQUEST

⌘ **31.111** CR **123** ⌘ rev **-** ⌘ Current version: **4.12.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|--|---------------------------|---|
| Title: | ⌘ Correction for non 3GPP references | | |
| Source: | ⌘ T3 | | |
| Work item code: | ⌘ TEI | Date: | ⌘ 18/11/2004 |
| Category: | ⌘ F | Release: | ⌘ Rel-4 |
| | Use <u>one</u> of the following categories: | | Use <u>one</u> of the following releases: |
| | F (correction) | Ph2 (GSM Phase 2) | |
| | A (corresponds to a correction in an earlier release) | R96 (Release 1996) | |
| | B (addition of feature), | R97 (Release 1997) | |
| | C (functional modification of feature) | R98 (Release 1998) | |
| | D (editorial modification) | R99 (Release 1999) | |
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| | | | Rel-5 (Release 5) |
| | | | Rel-6 (Release 6) |
| | | | Rel-7 (Release 7) |

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| Reason for change: | ⌘ During last T3 meeting, it was agreed to indicate which release of ETSI TS 102 223 was referred to, to avoid potential troublesome mix of releases when implementing toolkit. |
| Summary of change: | ⌘ A clear reference to the release for ETSI TS 102 223 is added. |
| Consequences if not approved: | ⌘ Possible mix and misimplementation of the specification. |

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|------------------------------|--|-------------------------------------|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------------------|---|
| Clauses affected: | ⌘ 2 | | | | | | | | | | |
| Other specs affected: | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table> | Y | N | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other core specifications | ⌘ |
| | Y | N | | | | | | | | | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| | | Test specifications | ⌘ | | | | | | | | |
| | | O&M Specifications | ⌘ | | | | | | | | |
| Other comments: | ⌘ | | | | | | | | | | |

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2 References

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- [1] 3GPP TS 22.002: "Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)".
- [2] 3GPP TS 22.030: "Man-Machine Interface (MMI) of the User Equipment (UE)".
- [3] 3GPP TS 22.042: "Network Identity and Time Zone (NITZ); Service description; Stage 1".
- [4] 3GPP TS 23.038: "Alphabets and language-specific information".
- [5] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [6] 3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
- [7] 3GPP TS 23.122: "Non-Access Stratum functions related to Mobile Station (MS) in idle mode".
- [8] 3GPP TS 24.007: "Mobile radio interface signalling layer 3; General aspects".
- [9] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".
- [10] 3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
- [11] 3GPP TS 24.080: "Mobile radio layer 3 supplementary services specification; Formats and coding".
- [12] 3GPP TS 27.007: "AT command set for 3G User Equipment (UE)".
- [13] 3GPP TS 31.101: "UICC-terminal interface; Physical and logical characteristics".
- [14] 3GPP TS 31.102: "Characteristics of the USIM application".
- [15] 3GPP TS 31.110: "Numbering system for telecommunication IC card applications".
- [16] ISO/IEC 7816-3 (1997): "Information technology - Identification cards - Integrated circuit(s) cards with contacts - Part 3: Electronic signals and transmission protocols".
- [17] ISO/IEC 7816-4 (1995): "Information technology - Identification cards - Integrated circuit(s) cards with contacts - Part 4: Interindustry commands for interchange".
- [18] ISO/IEC 7816-6 (1995): "Identification cards - Integrated circuit(s) cards with contacts - Part 6: Interindustry data elements".
- [19] ISO 639 (1988): "Codes for the representation of names of languages".
- [20] GSM 02.07: "Digital cellular telecommunications system (Phase 2+); Mobile Stations (MS) features".
- [21] 3GPP TS 42.017: "Subscriber Identity Modules (SIM); Functional characteristics".
- [22] 3GPP TS 22.001: "Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".

- [23] 3GPP TS 23.048: "Security mechanisms for the (U)SIM application toolkit; Stage 2".
- [24] IETF RFC 1738: "Uniform Resource Locators (URL)".
- [25] IETF RFC 768: "User Datagram Protocol".
- [26] IETF RFC 793: "Transmission Control Protocol".
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- [30] 3GPP TS 23.003: "Numbering, addressing and identification".
- [31] TIA/EIA/IS-820: "Removable User Identity Module (R-UIM) for TIA/EIA Spread Spectrum Systems".
- [32] ETSI TS 102 223: "Smart cards; Card Application Toolkit (CAT) ([Release 4](#))".
- [33] 3GPP TR 21.905: "Vocabulary for 3GPP specifications".
- [34] 3GPP TS 22.101: "Service aspects; Service Principles".
- [35] 3GPP TS 25.401: "UTRAN overall description".
- [36] 3GPP TS 25.413: "UTRAN Iu interface RANAP signalling".

CHANGE REQUEST

⌘ **31.111 CR 124** ⌘ rev **-** ⌘ Current version: **5.7.0** ⌘

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Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|--|---------------------------|---|
| Title: | ⌘ Correction for non 3GPP references | | |
| Source: | ⌘ T3 | | |
| Work item code: | ⌘ TEI5 | Date: | ⌘ 18/11/2004 |
| Category: | ⌘ F | Release: | ⌘ Rel-5 |
| | Use <u>one</u> of the following categories: | | Use <u>one</u> of the following releases: |
| | F (correction) | Ph2 (GSM Phase 2) | |
| | A (corresponds to a correction in an earlier release) | R96 (Release 1996) | |
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| | | | Rel-5 (Release 5) |
| | | | Rel-6 (Release 6) |
| | | | Rel-7 (Release 7) |

| | |
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| Reason for change: | ⌘ During last T3 meeting, it was agreed to indicate which release of ETSI TS 102 223 was referred to, to avoid potential troublesome mix of releases when implementing toolkit. |
| Summary of change: | ⌘ A clear reference to the release for ETSI TS 102 223 is added. |
| Consequences if not approved: | ⌘ Possible mix and misimplementation of the specification. |

| | | | | |
|------------------------------|-----|-----|-----------------------------|---------------------|
| Clauses affected: | ⌘ 2 | | | |
| Other specs affected: | ⌘ | Y N | Other core specifications ⌘ | |
| | ⌘ | X | | |
| | ⌘ | X | | Test specifications |
| | ⌘ | X | | O&M Specifications |
| Other comments: | ⌘ | | | |

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- [35] 3GPP TS 25.401: "UTRAN overall description".
- [36] 3GPP TS 25.413: "UTRAN Iu interface RANAP signalling".

CHANGE REQUEST

⌘ **31.111** CR **125** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

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Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|--|---------------------------|---|
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| | |
|--------------------------------------|---|
| Reason for change: | ⌘ During last T3 meeting, it was agreed to indicate which release of ETSI TS 102 223 was referred to, to avoid potential troublesome mix of releases when implementing toolkit. |
| Summary of change: | ⌘ A clear reference to the release for ETSI TS 102 223 is added. |
| Consequences if not approved: | ⌘ Possible mix and misimplementation of the specification. |

| | | | | | | | | | | | |
|------------------------------|---|---------------------|---|---|---|---|---|---|---|---------------------------|---|
| Clauses affected: | ⌘ 2 | | | | | | | | | | |
| Other specs affected: | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> </table> | Y | N | ⌘ | X | ⌘ | X | ⌘ | X | Other core specifications | ⌘ |
| Y | N | | | | | | | | | | |
| ⌘ | X | | | | | | | | | | |
| ⌘ | X | | | | | | | | | | |
| ⌘ | X | | | | | | | | | | |
| | | Test specifications | | | | | | | | | |
| | | O&M Specifications | | | | | | | | | |
| Other comments: | ⌘ | | | | | | | | | | |

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

- [1] 3GPP TS 22.002: "Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)".
- [2] 3GPP TS 22.030: "Man-Machine Interface (MMI) of the User Equipment (UE)".
- [3] 3GPP TS 22.042: "Network Identity and Time Zone (NITZ); Service description; Stage 1".
- [4] 3GPP TS 23.038: "Alphabets and language-specific information".
- [5] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [6] 3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
- [7] 3GPP TS 23.122: "Non-Access Stratum functions related to Mobile Station (MS) in idle mode".
- [8] 3GPP TS 24.007: "Mobile radio interface signalling layer 3; General aspects".
- [9] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".
- [10] 3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
- [11] 3GPP TS 24.080: "Mobile radio layer 3 supplementary services specification; Formats and coding".
- [12] 3GPP TS 27.007: "AT command set for 3G User Equipment (UE)".
- [13] 3GPP TS 31.101: "UICC-terminal interface; Physical and logical characteristics".
- [14] 3GPP TS 31.102: "Characteristics of the USIM application".
- [15] Void.
- [16] Void.
- [17] Void.
- [18] Void.
- [19] Void.
- [20] Void.
- [21] Void.
- [22] 3GPP TS 22.001: "Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".
- [23] 3GPP TS 23.048: "Security Mechanisms for the (U)SIM application toolkit; Stage 2".
- [24] Void.

- [25] Void.
- [26] Void.
- [27] 3GPP TS 44.018: "Mobile radio interface Layer 3 specification; Radio Resource Control Protocol".
- [28] Void.
- [29] Void.
- [30] 3GPP TS 23.003: "Numbering, addressing and identification".
- [31] Void.
- [32] ETSI TS 102 223: "Smart Cards; Card Application Toolkit ([Release 6](#))".
- [33] 3GPP TR 21.905: "Vocabulary for 3GPP specifications".
- [34] 3GPP TS 22.101: "Service aspects; Service principles".
- [35] 3GPP TS 25.401: "UTRAN overall description".
- [36] 3GPP TS 25.413: "UTRAN Iu interface RANAP signalling".
- [37] 3GPP TS 24.090: "Unstructured Supplementary Service Data (USSD) - Stage 3".
- [38] 3GPP TS 25.331: "Radio Resource Control (RRC) Protocol Specification".
- [39] 3GPP TS 25.133: "Requirements for support of radio resource management".
- [40] 3GPP TS 23.140: "Multimedia Messaging Service (MMS), Stage 2".

CHANGE REQUEST

⌘ **31.111 CR 126** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|---|-----------------|---|
| Title: | ⌘ Terminal Profile alignment with ETSI TS 102 223 | | |
| Source: | ⌘ T3 | | |
| Work item code: | ⌘ TEI6 | Date: | ⌘ 18/11/2004 |
| Category: | ⌘ F | Release: | ⌘ Rel-6 |
| | <i>Use one of the following categories:</i> F (correction) A (corresponds to a correction 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 . | | <i>Use one of the following releases:</i> Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7) |

| | |
|--------------------------------------|---|
| Reason for change: | ⌘ Byte 18 should refer correctly to TS 102 223, as done for the other bytes. Byte 22 is not clear on bit affectation. |
| Summary of change: | ⌘ Bytes 18 and 22 updated |
| Consequences if not approved: | ⌘ Possible inconsistencies when implementing the specification. |

| | | | | | | | | | | | |
|------------------------------|--|-------------------------------------|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------------------|---|
| Clauses affected: | ⌘ 5.2 | | | | | | | | | | |
| Other specs affected: | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table> | Y | N | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other core specifications | ⌘ |
| | Y | N | | | | | | | | | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| Test specifications | ⌘ | | | | | | | | | | |
| O&M Specifications | ⌘ | | | | | | | | | | |
| Other comments: | ⌘ | | | | | | | | | | |

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

5.2 Structure and coding of TERMINAL PROFILE

Direction: ME to UICC.

The command header is specified in 3GPP TS 31.101 [13].

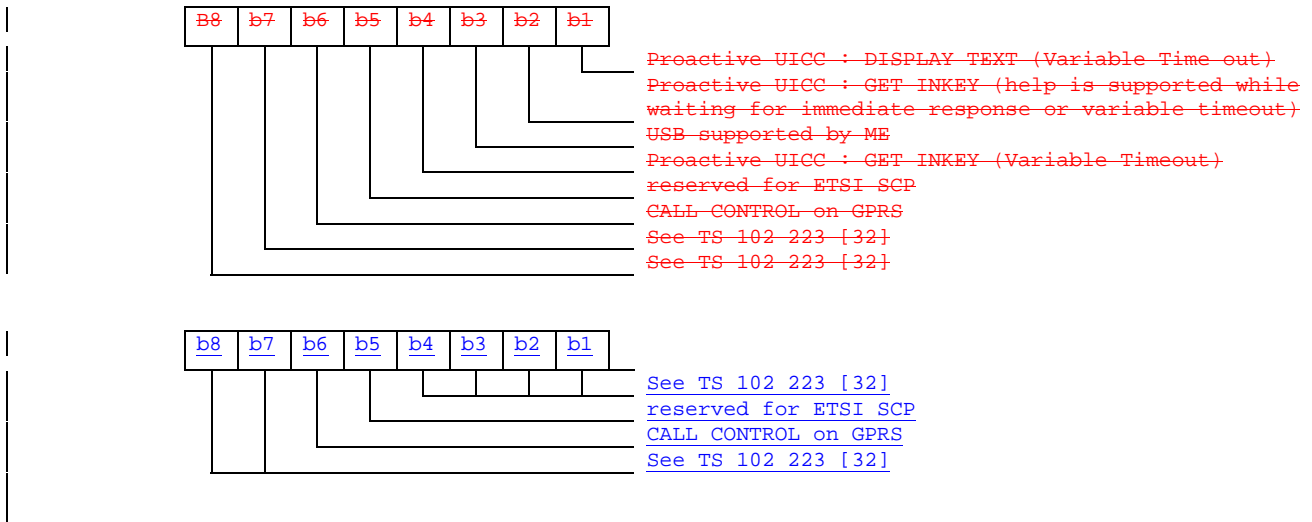
Command parameters/data:

| Description | Clause | M/O/C | Length |
|-------------|--------|-------|--------|
| Profile | - | M | lgth |

- Profile:
 - Contents:
 - The list of USAT facilities that are supported by the ME.
 - Coding:
 - 1 bit is used to code each facility:
 - bit = 1: facility supported by ME.
 - bit = 0: facility not supported by ME.

[...]

Eighteenth byte:



Nineteenth byte: (reserved for TIA/EIA-136 facilities):

- See TS 102 223 [32].

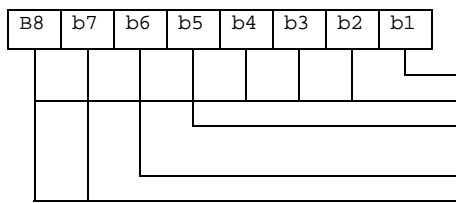
Twentieth byte: (reserved for TIA/EIA/IS-820 facilities):

- See TS 102 223 [32].

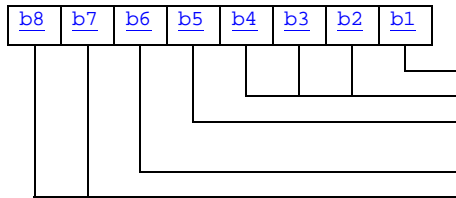
Twenty-first byte (Extended Launch Browser Capability) for class "c":

- See TS 102 223 [32].

Twenty second byte:

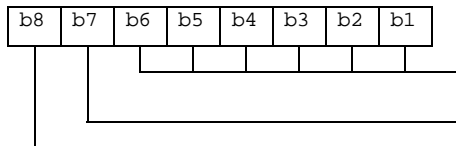


~~Support of UTRAN PS with extended parameters
See TS 102 223 [32]
RFU, bit = 0
MMS management by UICC supported by ME (i.e. class "j" is supported)
RFU, bit = 0~~



Support of UTRAN PS with extended parameters
See TS 102 223 [32]
RFU, bit = 0
MMS management by UICC supported by ME (i.e. class "j" is supported)
RFU, bit = 0

Twenty third byte:



See TS 102 223 [32]
Proactive UICC: PROVIDE LOCAL INFORMATION (NMR(UTRAN))
USSD Data download and application mode

Subsequent bytes:

- See TS 102 223 [32].

Response parameters/data:

- None.

CHANGE REQUEST

⌘ **31.111 CR 127** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|---|-----------------|---|
| Title: | ⌘ Correction for a missing letter class in Annex A | | |
| Source: | ⌘ T3 | | |
| Work item code: | ⌘ TEI6 | Date: | ⌘ 18/11/2004 |
| Category: | ⌘ F | Release: | ⌘ Rel-6 |
| | <i>Use one of the following categories:</i> F (correction) A (corresponds to a correction 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 . | | <i>Use one of the following releases:</i> Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7) |

| | |
|--------------------------------------|--|
| Reason for change: | ⌘ The letter class "i" is missing in the annex A table, though existing in TS 102 223. |
| Summary of change: | ⌘ Letter class "i" is added |
| Consequences if not approved: | ⌘ Inconsistency in letter classes. |

| | | | | | | | | | | | |
|------------------------------|--|-------------------------------------|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------------------|---|
| Clauses affected: | ⌘ Annex A | | | | | | | | | | |
| Other specs affected: | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table> | Y | N | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other core specifications | ⌘ |
| | Y | N | | | | | | | | | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| | | Test specifications | ⌘ | | | | | | | | |
| | | O&M Specifications | ⌘ | | | | | | | | |
| Other comments: | ⌘ | | | | | | | | | | |

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Annex A (normative): Support of USAT by Mobile Equipment

Support of USAT is optional for Mobile Equipment. However, if an ME states conformance with a specific 3G release, it is mandatory for the ME to support all functions of that release.

The support of USAT implies the support of CAT (TS 102 223 [32]).

The support of letter classes, which specify mainly ME hardware dependent features, is optional for the ME and may supplement the USAT functionality described in the present document. If an ME states conformance to a letter class, it is mandatory to support all functions within the respective letter class.

The table below indicates the commands and functions of the optional letter classes.

| Letter classes | Command/function description |
|----------------|---|
| a | See TS 102 223 [32] |
| b | See TS 102 223 [32] |
| c | See TS 102 223 [32] |
| d | See TS 102 223 [32] |
| e | See TS 102 223 [32] |
| f | See TS 102 223 [32] |
| g | See TS 102 223 [32] |
| h | See TS 102 223 [32] |
| i | See TS 102 223 [32] |
| j | Proactive command: RETRIEVE MULTIMEDIA MESSAGE Proactive command: SUBMIT MULTIMEDIA MESSAGE Event download: MMS Transfer status |

CHANGE REQUEST

31.111 CR 131 # rev - # Current version: 6.3.0

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|---|-----------------|---|
| Title: | # Display Multimedia Messages from the USIM | | |
| Source: | # T3 | | |
| Work item code: | # UEMMS | Date: | # 19/11/2004 |
| Category: | # B | Release: | # Rel-6 |
| | <p>Use <u>one</u> of the following categories:</p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (addition of feature),</p> <p>C (functional modification of feature)</p> <p>D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p> | | <p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p> |

| | | |
|--------------------------------------|---|---|
| Reason for change: | # | <p>A new requirement on USAT MMS presentation has been introduced in TS 22.038 release 6:</p> <p style="text-align: center;">7.7 MMS presentation requirements</p> <p>The USAT shall be able to request the ME to present to the user a Multimedia Message (i.e. via the MMS user agent in the ME) stored in the UICC (see TS 22.140 [16]).</p> <p>The aim of this CR is to implement this requirement in the toolkit Technical Specification.</p> |
| Summary of change: | # | A new proactive command is added to initiate a display of a multimedia message on the terminal. |
| Consequences if not approved: | # | |

| | | | | | | |
|--------------------------|---|--|---|---|--|---|
| Clauses affected: | # | 3.2 – 6.4.X (new) – 6.6.X (new) – 6.9 – 6.11 – 8.6 – 8.43 – 9.4 – 10 – Annex A | | | | |
| Other specs | # | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications # | Y | N | | X |
| Y | N | | | | | |
| | X | | | | | |

affected:

| | |
|-------------------------------------|---------------------|
| <input checked="" type="checkbox"/> | Test specifications |
| <input checked="" type="checkbox"/> | O&M Specifications |



Other comments: ⌘ Replaces T3-040489

3.2 Abbreviations

For the purpose of the present document, the abbreviations given in TS 102 223 [32] and TR 21.905 [33] and the following apply:

| | |
|---------------------|--|
| ADN | Abbreviated Dialling Number |
| CB | Cell Broadcast |
| CBMID | Cell Broadcast Message IDentifier |
| EGPRS | EDGE General Packet Radio Service |
| FDN | Fixed Dialling Number |
| GGSN | Gateway GPRS Support Node |
| GPRS | General Packet Radio Service |
| GSM | Global System for Mobile communications |
| MM | Multimedia Message |
| MMS | Multimedia Messaging Service |
| MMI | Man Machine Interface |
| PDP | Packet Data Protocol, e.g., Ip or X25 or PPP |
| RFU | Reserved for Future Use |
| SS | Supplementary Service |
| SSC | Supplementary Service Control string |
| USAT | USIM Application Toolkit |
| USIM | Universal Subscriber Identity Module |
| USSD | Unstructured Supplementary Service Data |

6.4.x DISPLAY MULTIMEDIA MESSAGE

This command shall be used to display a multimedia message (if class j is supported). The multimedia message is defined in TS 23.140 [40].

This command allows the UICC to define the priority of the message. Two types of priority are defined:

- display normal priority multimedia message;
- display high priority multimedia message.

A flag (see command qualifier, clause 6.8.1) shall be set to inform the terminal whether the availability of the screen for subsequent information display after its use for "Display Multimedia Message " should be either after a short delay (the duration of the delay being at the discretion of the terminal manufacturer), or following a user MMI action.

An immediate response object may be included by the UICC, to indicate if the terminal should sustain the display beyond sending the TERMINAL RESPONSE.

The behaviour of Terminals supporting this feature is described below:

- if the user has indicated the need to end the proactive UICC application session, the terminal shall send a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user" result value;
- if the user has indicated the need to go backwards in the proactive UICC application session, the terminal shall send a TERMINAL RESPONSE with "Backward move in the proactive UICC session requested by the user" result value;
- if a flag of the command qualifier (see clause 6.8.1) indicates that the terminal shall wait for the user to clear message and if the terminal decides that no user response has been received, the terminal shall send a TERMINAL RESPONSE with "No response from user" result value;
- if the UICC includes an immediate response object, the terminal shall immediately send TERMINAL RESPONSE (Command performed successfully). The terminal shall continue to display the multimedia message until one of the following events occurs:
 - a subsequent proactive command is received containing display data;
 - the expiration of the short delay, if so indicated by the command qualifier;
 - following a user MMI action;
 - when a higher priority event occurs, e.g. an incoming mobile terminated call.
- no further TERMINAL RESPONSE shall be sent when the terminal removes the multimedia message from the display, regardless of the cause;
- otherwise, the terminal shall send TERMINAL RESPONSE (Command performed successfully) at the expiration of either the short delay or the variable display timeout, or following a user MMI action not described above.

In each case the availability of the screen for the subsequent information display is defined in clause 6.9.

NOTE: For the case where the message is cleared after a short delay, the terminal may also allow the user to clear the display via the MMI prior to this.

The terminal shall reject normal priority text or multimedia messages commands if the screen is currently being used for more than its normal stand-by display. If the command is rejected, the terminal informs the UICC using TERMINAL RESPONSE (terminal currently unable to process command - screen busy).

High priority text or multimedia message should be displayed on the screen immediately, except if there is a conflict of priority level of alerting (e.g. emergency call, incoming calls, low battery warning). In that situation, the resolution is left to the terminal. If the command is rejected in spite of the high priority, the terminal shall inform the UICC using TERMINAL RESPONSE (terminal currently unable to process command - screen is busy).

If help information is requested by the user, this command may be used to display help information on the screen. The help information should be sent as high priority message and with the option that it should be cleared after a short delay.

[...]

6.6.X DISPLAY MULTIMEDIA MESSAGE

| Description | Clause | M/O/C | Min | Length |
|-------------------------------|----------------------|-------|-----|------------------------|
| Proactive UICC command Tag | 9.2 | M | Y | 1 |
| Length (A+B+C+D+E) | - | M | Y | 1 or 2 |
| Command details | 8.6 | M | Y | A |
| Device identities | 8.7 | M | Y | B |
| MMS Submission File | 8.18 | M | Y | C |
| Multimedia Message identifier | 8.75 | M | Y | D |
| Immediate response | 8.43 | O | N | E |

[...]

6.9 Proactive UICC session and ME display interaction

[The procedure defined in TS 102 223 \[32\] for ME display interaction applies also for DISPLAY MULTIMEDIA MESSAGE.](#) ~~See TS 102 223 [32].~~

[...]

6.11 Proactive commands versus possible Terminal response

Table 6.1 shows for each proactive command the possible terminal response returned (marked by a "•" character), in addition to those defined in TS 102 223 [32].

Table 6.1: Proactive commands versus possible Terminal response (continued overleaf...)

| | | PROACTIVE COMMAND | | | | | | | | | | | | | | | | | | | |
|-------------------|---|-------------------|-----------|---------------|-------------|------------------|-------------|---------|-----------|----------|-----------|----------------|-----------|---------------|-----------|-----------|-------------|-------------|--------------------|------------------|----------------------|
| | | RE-FRESH | MORE TIME | POLL INTERVAL | POLLING OFF | SETUP EVENT LIST | SET UP CALL | SEND SS | SEND USSD | SEND SMS | SEND DTMF | LAUNCH BROWSER | PLAY TONE | DIS-PLAY TEXT | GET INKEY | GET INPUT | SELECT ITEM | SET UP MENU | PROVIDE LOCAL INFO | TIMER MANAGEMENT | SETUP IDLE MODE TEXT |
| TERMINAL RESPONSE | | '01' | '02' | '03' | '04' | '05' | '10' | '11' | '12' | '13' | '14' | '15' | '20' | '21' | '22' | '23' | '24' | '25' | '26' | '27' | '28' |
| 14 | USSD or SS Transaction terminated by user | | | | | | • | • | • | | | | | | | | | | | | |
| 27 | MMS Temporary Problem | | | | | | | | | | | | | | | | | | | | |
| 34 | SS Return Error | | | | | | • | • | | | | | | | | | | | | | |
| 35 | SMS RPERROR | | | | | | | | | • | | | | | | | | | | | |
| 37 | USSD return error | | | | | | | | | • | | | | | | | | | | | |
| 39 | Interaction with call/SM control by USIM, permanent problem | | | | | | • | • | • | • | | | | | | | | | | | |
| 3D | MMS Error | | | | | | | | | | | | | | | | | | | | |

Table 6.1: Proactive commands versus possible Terminal response

| | | PROACTIVE COMMAND | | | | | | | | | | | | | | | | |
|-------------------|---|-------------------|---------------|----------------|-------------------|----------------|-------------------|--------------|---------------|--------------|-----------|--------------------|----------------|-------------------------|-----------------|-------------|-----------|----------------------------|
| | | CARD APDU | POWER ON CARD | POWER OFF CARD | GET READER STATUS | RUN AT COMMAND | LANG NOTIFICATION | OPEN CHANNEL | CLOSE CHANNEL | RECEIVE DATA | SEND DATA | GET CHANNEL STATUS | SERVICE SEARCH | GET SERVICE INFORMATION | DECLARE SERVICE | RETRIEVE MM | SUBMIT MM | DISPLAY MULTIMEDIA MESSAGE |
| TERMINAL RESPONSE | | '30' | '31' | '32' | '33' | '34' | '35' | '40' | '41' | '42' | '43' | '44' | '45' | '46' | '47' | '60' | '61' | 'XX' |
| 14 | USSD or SS Transaction terminated by user | | | | | | | | | | | | | | | | | |
| 27 | MMS Temporary Problem | | | | | | | | | | | | | | | • | • | • |
| 34 | SS Return Error | | | | | | | | | | | | | | | | | |
| 35 | SMS RPERROR | | | | | | | | | | | | | | | | | |
| 37 | USSD return error | | | | | | | | | | | | | | | | | |
| 39 | Interaction with call/SM control by USIM, permanent problem | | | | | | | | | | | | | | | | | |
| 3D | MMS Error | | | | | | | | | | | | | | | • | • | • |

8.6 Command details

The content and the coding of the Command Details TLV object is defined in TS 102 223 [32], except for the following.

The coding of the Command Qualifier is defined for the following commands:

- SEND SS:
 - this byte is RFU.
- SEND USSD:
 - this byte is RFU.
- PROVIDE LOCAL INFORMATION. The following additional values are defined:
 - '00' = Location Information (MCC, MNC, LAC, Cell Identity and Extended Cell Identity)
 - '02' = Network Measurement results.
 - '05' = Timing Advance.
- DISPLAY MULTIMEDIA MESSAGE:
 - bit 1: 0 = normal priority;
 1 = high priority.
 - bits 2 to 7: = RFU.
 - bit 8: 0 = clear message after a delay;
 1 = wait for user to clear message.

[...]

8.43 Immediate response

In addition to what is defined in TS 102 223 [32], this TLV object is used in the sustained DISPLAY MULTIMEDIA MESSAGE command.~~See TS 102 223 [32].~~

[...]

9.4 Type of Command and Next Action Indicator

The table below shows the values which shall be used for Type of Command coding (see clause 8.6) and Next Action Indicator coding (see clause 8.24) in addition to those defined in TS 102 223 [32].

| Value | Name | used for Type of Command coding | used for Next Action Indicator coding |
|-------|-----------------------------|---------------------------------|---------------------------------------|
| '11' | SEND SS | X | X |
| '12' | SEND USSD | X | X |
| '60' | RETRIEVE MULTIMEDIA MESSAGE | X | X |
| '61' | SUBMIT MULTIMEDIA MESSAGE | X | X |
| 'XX' | DISPLAY MULTIMEDIA MESSAGE | X | X |

10 Allowed Type of command and Device identity combinations

Only certain types of commands can be issued with certain device identities. These combinations are defined below, in addition to TS 102 223 [32].

| Command description | Source | Destination |
|-----------------------------|---------|-------------|
| CELL BROADCAST DOWNLOAD | Network | UICC |
| MO SHORT MESSAGE CONTROL | ME | UICC |
| SEND SS | UICC | Network |
| SEND USSD | UICC | Network |
| RETRIEVE MULTIMEDIA MESSAGE | UICC | Network |
| SUBMIT MULTIMEDIA MESSAGE | UICC | Network |
| MMS Transfer Status | Network | UICC |
| DISPLAY MULTIMEDIA MESSAGE | UICC | ME |

[...]

Annex A (normative): Support of USAT by Mobile Equipment

Support of USAT is optional for Mobile Equipment. However, if an ME states conformance with a specific 3G release, it is mandatory for the ME to support all functions of that release.

The support of USAT implies the support of CAT (TS 102 223 [32]).

The support of letter classes, which specify mainly ME hardware dependent features, is optional for the ME and may supplement the USAT functionality described in the present document. If an ME states conformance to a letter class, it is mandatory to support all functions within the respective letter class.

The table below indicates the commands and functions of the optional letter classes.

| Letter classes | Command/function description |
|----------------|--|
| a | See TS 102 223 [32] |
| b | See TS 102 223 [32] |
| c | See TS 102 223 [32] |
| d | See TS 102 223 [32] |
| e | See TS 102 223 [32] |
| f | See TS 102 223 [32] |
| g | See TS 102 223 [32] |
| h | See TS 102 223 [32] |
| j | Proactive command: RETRIEVE MULTIMEDIA MESSAGE Proactive command: SUBMIT MULTIMEDIA MESSAGE Proactive command: DISPLAY MULTIMEDIA MESSAGE Event download: MMS Transfer status |

CHANGE REQUEST

31.111 CR 130 # rev **-** # Current version: **6.3.0**

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|--|-----------------|--|
| Title: | # UICC initiated GBAU Bootstrapp | | |
| Source: | # Axalto | | |
| Work item code: | # SEC1-SC | Date: | # 04/11/2004 |
| Category: | # B | Release: | # Rel-6 |
| | <i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction 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 . | | <i>Use <u>one</u> of the following releases:</i> Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7) |

| | |
|--------------------------------------|---|
| Reason for change: | # GBA with UICC-based enhancements (GBA_U) may be used to establish security associations between any UE application and a Network Application Function (NAF). In the case of a USAT application, a mechanism for initiating a bootstrapping procedure is needed in case that bootstrapped keys are not available. This proposal has already been presented during T3#32 in doc T3-040486, which was delayed while waiting for a response from a LS T3 sent to SA3 (T3-040562). In their response (T3-040636), SA3 provide some considerations and ask T3 to implement the involved functionality within Rel-6 time frame. |
| Summary of change: | # The following changes are included: - addition of a bit in TERMINAL PROFILE to indicate the support by the ME of Toolkit-initiated GBA - Inclusion of specific requirements to perform GBA bootstrap procedure initiated by a REFRESH command on EF _{GBABP} |
| Consequences if not approved: | # USAT applications will not be able to use GBA_U when a bootstrapp procedure has not been performed by the ME. |

| | |
|--------------------------|---|
| Clauses affected: | # 5.2 - 6.4.7.2 (new) |
| | <input type="checkbox"/> Y <input type="checkbox"/> N |

| | | | | | |
|------------------------------|---|-------------------------------------|---------------------------|---|--|
| Other specs affected: | ⌘ | <input checked="" type="checkbox"/> | Other core specifications | ⌘ | |
| | | <input type="checkbox"/> | Test specifications | | |
| | | <input type="checkbox"/> | O&M Specifications | | |
| Other comments: | ⌘ | | | | |

5.2 Structure and coding of TERMINAL PROFILE

Direction: ME to UICC.

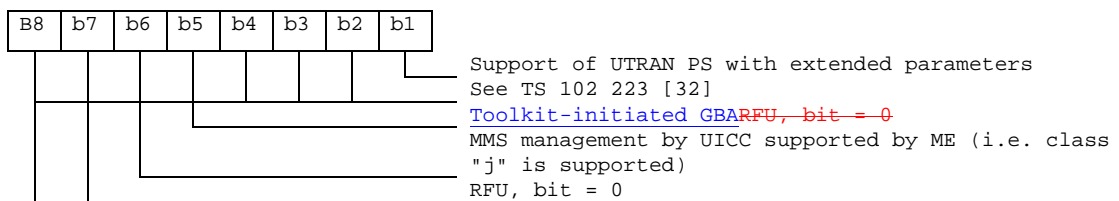
The command header is specified in 3GPP TS 31.101 [13].

Command parameters/data:

| Description | Clause | M/O/C | Length |
|-------------|--------|-------|--------|
| Profile | - | M | lgth |

[...]

Twenty second byte:



[...]

6 Proactive UICC

[...]

6.4.7 REFRESH

See TS 102 223 [32].

6.4.7.1 EF_{IMSI} changing procedure

When an EF_{IMSI} is changed via Data Download or a USAT application and a REFRESH command is issued by the UICC the following rules apply to the UICC and ME:

- USIM Initialization. This command shall not be used if an EF_{IMSI} is changed, as the behaviour of the UE is unpredictable;
- File Change Notification. This command shall not be used if an EF_{IMSI} is changed, as the behaviour of the UE is unpredictable;
- USIM Initialization and File Change Notification. This command shall not be used if an EF_{IMSI} is changed, as the behaviour of the UE is unpredictable;
- USIM Initialization and Full File Change Notification. This command shall not be used if an EF_{IMSI} is changed, as the behaviour of the UE is unpredictable;
- UICC Reset. Normal UICC Reset procedure is carried out;

- USIM Application Reset. Normal USIM Application Reset procedure is carried out;
- 3G Session Reset. Normal 3G Session Reset procedure is carried out.

If an EF_{IMSI} is to be updated, neither EF_{IMSI} nor EF_{LOCI} shall be updated in the UICC before the 3G session termination procedure has been completed by the ME.

6.4.7.2 Generic Bootstrapping Procedure Request

If Toolkit-initiated GBA is supported by the ME, as indicated in the TERMINAL PROFILE, then the following applies:

When the UICC issues a REFRESH command implying a File Change Notification on EF_{GBAPP} under ADF USIM (GBA Bootstrapping parameters) the ME shall perform a GBA bootstrapping procedure (as defined in TS 31.102 [14]).

This procedure applies to REFRESH command only in the following modes: USIM File Change Notification; USIM Initialization and File Change Notification; and 3G Session Reset.