**Agenda Item:**   6.3.3

**Source:**   T3

**Title:**   CRs to TS 31.116

**Document for:**   Approval

_____

This document contains the following change requests that are approved by 3GPP TSG T3 and forwarded to 3GPP TSG T#27 for approval:

| Doc-2nd-Level | Spec | CR | Rev | Rel | Subject | Cat | Ver-old | Ver-new | WI |
|---|---|---|---|---|---|---|---|---|---|
| T3-050164 | 31.116 | 008 | | Rel-6 | Correction of reference to TS 102226 | F | 6.6.0 | 6.7.0 | TEI6 |
| T3-050167 | 31.116 | 009 | | Rel-6 | USIM specific behaviour for PUSH mechanism using SMS-PP | F | 6.6.0 | 6.7.0 | TEI6 |

*CR-Form-v7.1*

# CHANGE REQUEST

| ⌘ | **31.116** CR | 008 | ⌘**rev** | **-** | ⌘ | Current version: | **6.6.0** | ⌘ |

*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⌘ **X**    ME☐ Radio Access Network ☐ Core Network ☐

| **Title:** | ⌘ | Correction of wrong references to TS 102 226 |
| **Source:** | ⌘ | T3 |

| **Work item code:**⌘ | TEI | | **Date:** ⌘ | 09/02/2005 |

| **Category:** | ⌘ | **F** | | **Release:** ⌘ | Rel-6 |

*Use one of the following categories:*
**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.

*Use one of the following releases:*
| 2 | (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:** ⌘ | During T3#33, the rapporteur of 3GPP TS 31 116 was tasked to check the references to TS 102 226 (action point 4/33). |

| **Summary of change:**⌘ | Correction of wrong references to TS 102 226 |

| **Consequences if not approved:** ⌘ | Inconsistency in the specification |

| **Clauses affected:** | ⌘ | 1, 3, 4.1, 4.2, 4.2.1, 5.1, 5.2, 5.3, 6, 6.1 |

| **Other specs affected:** | ⌘ | Y | N | | ⌘ |
| | | | X | Other core specifications | ⌘ |
| | | | X | Test specifications | |
| | | | X | 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.

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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.

# 1 Scope

The present document defines the remote management of files and applets on the SIM/USIM.

It describes the APDU format for remote management.

Furthermore the document specifies:

- a set of commands coded according to this APDU structure and used in the remote file management on the SIM/USIM specified in 3GPP TS 51.011 [1], 3GPP TS 31.101 [2] and 3GPP TS 31.102 [3].

- a set of commands coded according to this APDU structure and used in the remote applet management on the SIM/USIM. This is based on TS 102 226 [4].

The remote APDU structure for SIM/USIM applications shall comply with the one defined in TS 102 226 [45]. The present document only contains additional requirements or explicit limitations for SIM/USIM applications.

# 3 Definitions and abbreviations

For the purposes of the present document, the abbreviations, terms and definitions given in TS 102 226 [45] apply.

# 4 Remote APDU Format

## 4.1 Remote command coding

The SIM/USIM Remote command coding shall comply with the Remote command coding of TS 102 226 [45].

## 4.2 Response coding

The SIM/USIM Response coding shall comply with the Response coding of TS 102 226 [45], added features are defined below.

### 4.2.1 (U)SIM specific behaviour for Response Packets (Using SMS-PP)

If PoR is not requested, no data shall be returned by the (U)SIM's RE/RA and the (U)SIM's RE/RA shall indicate to the terminal to issue a RP-ACK.

If PoR is requested, data shall be returned by the (U)SIM's RE/RA. The (U)SIM's RE/RA shall indicate to the terminal to issue:

a RP-ACK if the response status code octet is '00' or,

a RP-ERROR if there is a security error of some kind (see table 5).

The data returned by the (U)SIM is the complete Response Packet to be included in the User Data part of the SMS-DELIVER-REPORT.

Because the (U)SIM is unable to indicate to the Terminal that the TP-UDHI bit is to be set, the Sending Entity receiving the Response Packet shall expect the UDH structure in any event.

If a proof of Receipt is required by the sending entity, the Additional Response Data sent by the Remote Management Application shall be formatted according to TS 102 226 [45].

# 5        Remote File Management (RFM)

## 5.1      SIM Remote File Management

Command and Response formats are defined in TS 102 226 [45]. Nevertheless, the list of commands defined in
TS 102 226 [45] for Remote File Management does not apply for SIM application. All the SIM Remote File
Management commands are defined below.

The standardised commands are listed in table 5.1. The commands are as defined in 3GPP TS 51.011 [1], except that
the SELECT command is extended from the one in 3GPP TS 51.011 [1] to include "SELECT by path" as defined in
ISO/IEC 7816-4 [6].

**Table 5.1: SIM Remote File Management Commands**

| Operational command |
|---|
| SELECT |
| UPDATE BINARY |
| UPDATE RECORD |
| SEEK |
| INCREASE |
| VERIFY CHV |
| CHANGE CHV |
| DISABLE CHV |
| ENABLE CHV |
| UNBLOCK CHV |
| INVALIDATE |
| REHABILITATE |
| READ BINARY |
| READ RECORD |

To retrieve the Response parameters/data of a case 4 command the GET RESPONSE command defined in TS 51.011
[1] shall be issued (Class Byte is 'A0').

The GET RESPONSE and any case 2 command (i.e. READ BINARY, READ RECORD) shall only occur once in a
command string and, if present, shall be the last command in the string. The Response Data shall be placed in the
Additional Response Data element of the Response Packet.

## 5.2      USIM Remote File Management

USIM Remote File Management shall comply with TS 102 226 [45].

The standardised commands are listed in TS 102 226 [45].

## 5.3      UICC Shared File System Remote File Management

UICC Shared File System Remote File Management shall comply with TS 102 226 [45].

The standardised commands are listed in TS 102 226 [45].

# 6 Remote Applet Management

SIM/USIM Remote Applet Management shall comply with TS 102 226 [45], added features are defined below.

## 6.1 SIM File System Access Domain Parameter

This parameter indicates the mechanism used to control the applet instance access to the SIM File System. It is a parameter of the INSTALL [for install] command described in TS 102 226 [45].

This parameter shall be used only if the "SIM File Access and Toolkit Application Specific Parameters" TLV object (Tag 'CA') is present.

| Value | Name | Support | ADD length |
|-------|------|---------|------------|
| '00' | See TS 102 226 [45] | - | - |
| '01' | SIM access mechanism | Optional | 2 |
| '02' to 'FF' | See TS 102 226 [45] | - | - |

*CR-Form-v7.1*

# CHANGE REQUEST

| ⌘ | **31.116** CR 009 | ⌘**rev** | **-** | ⌘ | Current version: | **6.6.0** | ⌘ |

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**Proposed change affects:**   UICC apps⌘ **X**     ME ☐   Radio Access Network **X**   Core Network ☐

| | | | |
|---|---|---|---|
| *Title:* | ⌘ | USIM specific behaviour for PUSH mechanism using SMS-PP | |
| *Source:* | ⌘ | T3 | |
| *Work item code:* ⌘ | TEI | *Date:* ⌘ | 10/02/2005 |

| | | | |
|---|---|---|---|
| *Category:* ⌘ | **F** | *Release:* ⌘ | Rel-6 |

*Use one of the following categories:*
*F (correction)*
*A (corresponds to a correction in an earlier release)*
*B (addition of feature),*
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*Use one of the following releases:*
*Ph2 (GSM Phase 2)*
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*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:* ⌘ | PUSH mechanism has been introduced in TS 102 226 and needs also to be defined for USIM Toolkit applications when using SMS-PP | |
| *Summary of change:* ⌘ | Clarify the specific behaviour of USIM Toolkit applications for Push mechanism using SMS-PP, especially for the response handling. | |
| *Consequences if not approved:* ⌘ | The way Additional Response Data will be returned in the Response Packet when using SMS-PP is not described. | |

| | | |
|---|---|---|
| *Clauses affected:* ⌘ | New paragraph X | |

| | Y | N | | |
|---|---|---|---|---|
| *Other specs affected:* ⌘ | | | Other core specifications ⌘ | |
| | | | Test specifications | |
| | | | O&M Specifications | |

| | | |
|---|---|---|
| *Other comments:* ⌘ | | |

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[…]

# X        Additional command for push

The PUSH command behaviour shall comply with TS 102 226 [4]. The specific behaviour of USIM Toolkit applications is stated below.

# X.1        USIM specific behaviour for responses using SMS-PP

The behaviour for responses shall comply with TS 102 226 [4].

As the processing of the PUSH command may result in proactive commands being issued, the PUSH command result may be sent back in the additional response data of a response packet using SMS-SUBMIT.