3GPP TSG-T plenary meeting #19
Birmingham, UK, 12-14 March 2003

Tdoc TP-030025

Source: T3

Title: CRs to TS 23.048: SIM toolkit secure messaging (stage 2)

CRs to TS 31.116: Remote APDU Structure for (U)SIM Toolkit applications

Document for: Approval

This document contains the following change requests:

T3-Doc	Spec	CR	Rev	Cat	Phase	Subject	Version-Current	Version-New	WI
T3-030142	23.048	030	-	F	Rel-5	Starting directory for the RFM applications	5.5.0	5.6.0	TEI
T3-030164	23.048	031	-	F	Rel-5	Correction on behaviour for Response Packet	5.5.0	5.6.0	TEI
T3-030183	23.048	032	-	F	Rel-4	Implementation for SMS-CB in 3G	4.3.0	4.4.0	TEI
T3-030200	23.048	033	-	F	Rel-5	Implementation for SMS-CB in 3G	5.5.0	5.6.0	TEI
T3-030193	23.048	034	-	F	Rel-5	Default values assigned to the application for optional parameters if not present in the install(install) command data.	5.5.0	5.6.0	TEI
T3-030166	31.116	003	-	A	Rel-6	Correction on behaviour for Response Packet	6.2.0	6.3.0	TEI

3GPP TSG-T3 Meeting #26
Lisboa, PT, 11.-14.02.2003

Tdoc ⌘T3-030142

CR-Form-v7

CHANGE REQUEST

⌘ **23.048** **CR** **030** ⌘ **rev** **-** ⌘ Current version: **5.5.0** ⌘

*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:	⌘	Starting directory for the RFM Applications
Source:	⌘	TSG-T3
Work item code:	⌘	TEI
Date:	⌘	12/02/2003
Category:	⌘	**F**
Release:	⌘	Rel-5

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)

Reason for change:	⌘	The starting directory for the Remote File Manager application is not specified. This could lead to different interpretation and thus to interporability problems.
Summary of change:	⌘	Specify the starting directory for the Remote File Manager Application i.e. MF for a SIM File System and UICC Shared File System RFM and ADF for a USIM File System RFM.
Consequences if not approved:	⌘	Interoperability problems

Clauses affected:	⌘	2, 8.1

Other specs affected:	⌘	Y	N		⌘	
		X		Other core specifications		EP SCP TS 102.226
				Test specifications		
				O&M Specifications		

Other comments:	⌘	

How to create CRs using this form:
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Below is a brief summary:

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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 TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 22.048: "Security mechanisms for the (Universal) Subscriber Interface Module (U)SIM Application Toolkit; Stage 1".

[3] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

[4] 3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".

[5] 3GPP TS 51.011: "Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".

[6] 3GPP TS 31.111: "USIM Application Toolkit (USAT)".

[7] ISO/IEC 7816-4 (1995): "Information technology - Identification cards - Integrated circuit(s) cards with contacts - Part 4: Interindustry commands for interchange".

[8] ISO/IEC 7816-6 (1996): "Information technology - Identification cards - Integrated circuit(s) cards with contacts - Part 6: Interindustry data elements".

[9] ISO 8731-1 (1987): "Banking - Approved algorithms for message authentication - Part 1: DEA".

[10] ISO/IEC 10116 (1997): "Information technology - Security techniques - Modes of operation for an n-bit block cipher".

[11] 3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".

[12] 3GPP TS 24.012: "Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface".

[13] 3GPP TS 23.038: "Alphabets and language-specific information".

[14] Open Platform Card Specification version 2.0.1 (see http://www.globalplatform.org/)

[15] 3GPP TS 43.019: "Subscriber Identity Module Application Programming Interface (SIM API); SIM API for Java Card™; Stage 2".

[16] 3GPP TS 31.101: "UICC-Terminal Interface, Physical and Logical Characteristics".

[17] Schneier, Bruce: "Applied Cryptography Second Edition: Protocols, Algorithms and Source code in C", John Wiley & Sons, 1996, ISBN 0-471-12845-7.

[XX] ETSI TS 101 220 "Smart Cards; ETSI numbering system for telecommunication application providers".

[…]

8.1 Behaviour of the Remote File Management Application

1. The parameter(s) in the Data Download Message to UICC is either a single command, or a list of commands, which shall be processed sequentially.

2. The application shall take parameters from the Data Download Message to UICC and shall act upon the 3G and/or GSM files according to these parameters.

3. A Command "session" is defined as starting upon receipt of the parameter/command list, and ends when the parameter list in the Data Download Message to UICC is completed, or when an error is detected which shall halt further processing of the command list.

4. At the beginning and end of a Command "session" the logical state, (e.g. file pointers) of the UICC as seen from the ME shall not be changed to an extent sufficient to disrupt the behaviour of the ME. If changes in the logical state have occurred that the ME needs to be aware of, the application on the UICC may issue a REFRESH command according to 3GPP TS 31.111 [6]. However, this is application dependent and therefore out of scope of the present document.

5. The following directory shall be implicitely selected and be the current directory at the beginning of a Command "session" :

   - the MF for a Command "session" sent to a UICC Shared File System (as defined in TS 101 220 [XX]) or SIM File System (as defined in TS 101 220 [XX]) Remote File Management Application,

   - the ADF for a Command "session" sent to a USIM File System (as defined in TS 101 220 [XX]) Remote File Management Application.

3GPP TSG-T3 Meeting #26
Lisboa, PT, 11.-14.02.2003

Tdoc ⌘T3-030164

CR-Form-v7

CHANGE REQUEST

⌘ **23.048** **CR** **31** ⌘ **rev** **-** ⌘ Current version: **5.5.0** ⌘

*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 on behaviour for Response Packet
Source:	⌘	TSG-T3
Work item code:	⌘	TEI
Date:	⌘	07/02/2003
Category:	⌘	**F**
Release:	⌘	Rel-5

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)*

Reason for change:	⌘	A note about the Response packet introduce inconsistency.
Summary of change:	⌘	Suppression of the note which is in contradiction with another sentence.
Consequences if not approved:	⌘	Inconsistency in the specification.

Clauses affected:	⌘	8.3			
Other specs affected:	⌘	**Y** / **N**	Other core specifications	⌘	31.116
		X /	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.

8.3 (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.

~~NOTE: if no PoR is requested, it is however permissible for the (U)SIM to send back data.~~

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 File Management Application shall be formatted according to table 14:

Table 14: Format of additional response data

Length	Name
1	Number of commands executed within the command script (see note)
2	Last executed command status word
X	Last executed command response data if available (i.e., if the last command was an outgoing command)
NOTE:	This field shall be set to '01' if one command was executed within the command script, '02' if two commands were executed, etc…

3GPP TSG-T3 Meeting #26
Lisbon, Portugal, 11 –14 February 2003

Tdoc ⌘ T3-030183

CR-Form-v7

CHANGE REQUEST

⌘ **23.048** **CR** **032** ⌘ **rev** **-** ⌘ Current version: **4.5.0** ⌘

*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:	⌘	Implementation for SMS-CB in 3G
Source:	⌘	TSG-T3
Work item code:	⌘	TEI
Date:	⌘	14/02/2003
Category:	⌘	**F**
Release:	⌘	Rel-4

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)*

Reason for change:	⌘	The mechanism described in the current version of TS 23.048 is not applicable to 3G cell broadcast data download. There is currently no mechanism in 3GPP specifications describing the format of the cell broadcast message in a 3G network.
Summary of change:	⌘	The current description of the cell broadcast data download is applicable to cell broadcast messages in a GSM network only.
Consequences if not approved:	⌘	The current procedure is wrong.

Clauses affected:	⌘	§ 7, § 7.2

		Y	N			
Other specs affected:	⌘	X		Other core specifications	⌘	TS 23.048 Rel-5
				Test specifications		
				O&M Specifications		

Other comments:	⌘	

How to create CRs using this form:
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Below is a brief summary:

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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.

7 Implementation for SMS-CB

This chapter is applicable to a SMS-CB message in a GSM network only.

7.1 Structure of the CBS page in the SMS-CB Message

The CBS page sent to the MS by the BTS is a fixed block of 88 octets as coded in TS 24.012 [12]. The 88 octets of CBS information consist of a 6-octet header and 82 user octets.

The 6-octet header is used to indicate the message content as defined in TS 23.041 [11]. This information is required to be transmitted unsecured in order for the ME to handle the message in the correct manner (e.g. interpretation of the DCS).

The content of the message shall be secured as defined in this clause.

A range of values has been reserved in TS 23.041 [11] to indicate SMS-CB Data Download messages that are secured and unsecured. A subset of these values is used to indicate the Command Packet for CBS messages. This range is from (hexadecimal) '1080' to '109F' and is included in the structure of the Command Packet as illustrated in table 9.

7.2 A Command Packet contained in a SMS-CB message

The relationship between the Command Packet and its inclusion in the SMS-CB message structure is indicated in table 9.

Table 9: Relationship of Command Packet in the first CBS page of an SMS-CB message

SMS-CB specific elements	Generalised Command Packet Elements (Refer to Table 1)	Comments
SN		Refer to TS 23.041 [11]. Coded on 2 octets containing the ID of a particular message.
MID	CPI='1080' to '109F'	Coded on 2 octets containing the source and type of the message. The Command Packet Identifier range is reserved in TS 23.041 [11]. (see note)
DCS		Refer to TS 23.041 [11]. Coded on 1 octet containing the alphabet coding and language as defined in TS 23.038 [13].
PP		Refer to TS 23.041 [11]. Coded on 1 octet to indicate the page number and total number of pages.
Content of Message	CPL	Length of the Command Packet, coded over 2 octets, and shall not be coded according to ISO/IEC 7816-6 [8].
	CHI	The Command Header Identifier. Null field.
	CHL	This shall indicate the number of octets from and including the SPI to the end of the RC/CC/DS field. Binary coded over 1 octet.
	SPI to RC/CC/DS in the Command Header	The remainder of the Command Header.
	Secured Data	Application Message, including possible padding octets.

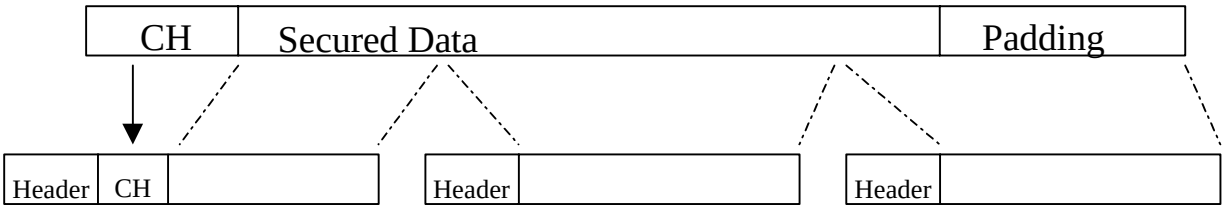
NOTE: Generally, the CPI is coded on 1 octet, as specified in table 1. However, the CPI for the SMS-CB message is coded on 2 octets as the values reserved in TS 23.041 [11] to identify the Command Packet are MID values which are coded on 2 octets.

It is recognised that most checksum algorithms require input data in modulo 8 length. In order to achieve a modulo 8 length of the data before the RC/CC/DS field in the Command Header the Length of the Command Packet and the Length of the Command Header shall be included in the calculation of RC/CC/DS if used. These fields shall not be ciphered.

Securing of the complete CBS message is achieved outside the ~~3G and~~ GSM specifications by the Sending Entity. The Secured CBS message is formatted in accordance with the ~~3G and~~ GSM specifications and transmitted to the MS as

CBS pages. The CBS pages are received by the ME and sent directly to the UICC, by analysing the MID value. The UICC shall then reassemble, decrypt and process the message.

An example illustrating the relationship between a Command Packet split over a sequence of three SMS-CB pages is shown below.



First CBS page in the sequence Second CBS page Third and final CBS page

In the above figure, Header = 6 Octet header as defined in GSM 03.41 (i.e. SN, MID, DCS and PP) and CH = Command Header

Figure 4: Example of command split using concatenated CB SMS

7.3 Structure of the Response Packet for a SMS-CB Message

As there is no response mechanism defined for SMS-CB, there is no defined structure for the (Secured) Response Packet. However, if a (Secured) Response Packet is sent via another bearer the structure shall be defined by the Receiving Application.

3GPP TSG-T3 Meeting #26
Lisbon, Portugal, 11 –14 February 2003

Tdoc ⌘ T3-030200

CR-Form-v7

CHANGE REQUEST

⌘ **23.048** **CR** **033** ⌘ **rev** **-** ⌘ Current version: **5.5.0** ⌘

*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:	⌘	Implementation for SMS-CB in 3G
Source:	⌘	TSG-T3
Work item code:	⌘	TEI
Date:	⌘	14/02/2003
Category:	⌘	**F**
Release:	⌘	Rel-5

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)*

Reason for change:	⌘	The mechanism described in the current version of TS 23.048 is not applicable to 3G cell broadcast data download. There is currently no mechanism in 3GPP specifications describing the format of the cell broadcast message in a 3G network.
Summary of change:	⌘	The current description of the cell broadcast data download is applicable to cell broadcast messages in a GSM network only.
Consequences if not approved:	⌘	The current procedure is wrong.

Clauses affected:	⌘	§ 7, § 7.2

	Y	N			
Other specs affected:	X		Other core specifications	⌘	TS 23.048 Rel-4
			Test specifications		
			O&M Specifications		

Other comments:	⌘	

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The CBS page sent to the MS by the BTS is a fixed block of 88 octets as coded in GSM 24.012 [12]. The 88 octets of CBS information consist of a 6-octet header and 82 user octets.

The 6-octet header is used to indicate the message content as defined in 3GPP TS 23.041 [11]. This information is required to be transmitted unsecured in order for the ME to handle the message in the correct manner (e.g. interpretation of the DCS).

The content of the message shall be secured as defined in this clause.

A range of values has been reserved in 3GPP TS 23.041[11] to indicate SMS-CB Data Download messages that are secured and unsecured. A subset of these values is used to indicate the Command Packet for CBS messages. This range is from (hexadecimal) '1080' to '109F' and is included in the structure of the Command Packet as illustrated in table 9.

7.2 A Command Packet contained in a SMS-CB message

The relationship between the Command Packet and its inclusion in the SMS-CB message structure is indicated in table 9.

Table 9: Relationship of Command Packet in the first CBS page of an SMS-CB message

SMS-CB specific elements	Generalised Command Packet Elements (Refer to table 1)	Comments
SN		Refer to 3GPP TS 23.041[11]. Coded on 2 octets containing the ID of a particular message.
MID	CPI='1080' to '109F'	Coded on 2 octets containing the source and type of the message. The Command Packet Identifier range is reserved in 3GPP TS 23.041[11]. (see note)
DCS		Refer to 3GPP TS 23.041[11]. Coded on 1 octet containing the alphabet coding and language as defined in GSM 23.038[13].
PP		Refer to 3GPP TS 23.041[11]. Coded on 1 octet to indicate the page number and total number of pages.
Content of Message	CPL	Length of the Command Packet, coded over 2 octets, and shall not be coded according to ISO/IEC 7816-6 [8].
	CHI	The Command Header Identifier. Null field.
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	SPI to RC/CC/DS in the Command Header	The remainder of the Command Header.
	Secured Data	Application Message, including possible padding octets.

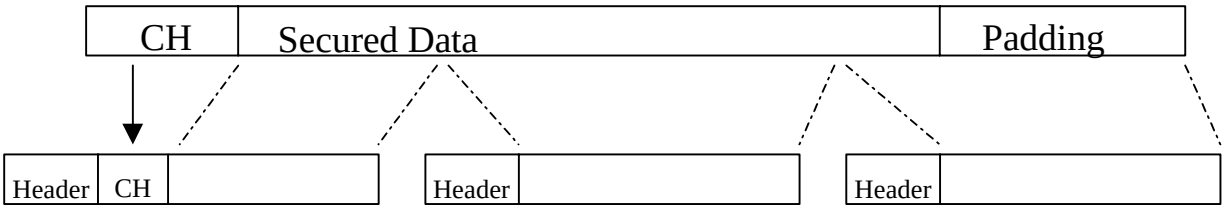
NOTE: Generally, the CPI is coded on 1 octet, as specified in table 1. However, the CPI for the SMS-CB message is coded on 2 octets as the values reserved in 3GPP TS 23.041 [11] to identify the Command Packet are MID values which are coded on 2 octets.

It is recognised that most checksum algorithms require input data in modulo 8 length. In order to achieve a modulo 8 length of the data before the RC/CC/DS field in the Command Header the Length of the Command Packet and the Length of the Command Header shall be included in the calculation of RC/CC/DS if used. These fields shall not be ciphered.

Securing of the complete CBS message is achieved outside the ~~3G and~~ GSM specifications by the Sending Entity. The Secured CBS message is formatted in accordance with the ~~3G and~~ GSM specifications and transmitted to the MS as

CBS pages. The CBS pages are received by the ME and sent directly to the UICC, by analysing the MID value. The UICC shall then reassemble, decrypt and process the message.

An example illustrating the relationship between a Command Packet split over a sequence of three SMS-CB pages is shown below.



First CBS page in the sequence Second CBS page Third and final CBS page

In the above figure, Header = 6 Octet header as defined in GSM 03.41 (i.e. SN, MID, DCS and PP) and CH = Command Header

Figure 4: Example of command split using concatenated CB SMS

7.3 Structure of the Response Packet for a SMS-CB Message

As there is no response mechanism defined for SMS-CB, there is no defined structure for the (Secured) Response Packet. However, if a (Secured) Response Packet is sent via another bearer the structure shall be defined by the Receiving Application.

3GPP TSG-T3 Meeting #26
Lisbon, Portugal, 11 –14 February 2003

Tdoc ⌘ T3-030193
Revised T3-030165

CR-Form-v7

CHANGE REQUEST

⌘ **23.048** **CR** **034** ⌘ **rev** **-** ⌘ Current version: **5.5.0** ⌘

*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:	⌘	Default values assigned to the application for optional parameters if not present in the install(install) command data.
Source:	⌘	TSG-T3
Work item code:	⌘	TEI
Date:	⌘	14/02/2003
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
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C *(functional modification of feature)*
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R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	A default value assigned to the application has to be specified for the optional parameters in the Toolkit Applet Specific Parameters field defined in Release 5 in case these parameters are not present in the install(install) command data.
Summary of change:	⌘	For each optional parameter of the Toolkit Applet Specific Parameters field i.e. Maximum number of channels for this applet instance and Length of Minimum Security Level field a default value is assigned to the application.
Consequences if not approved:	⌘	The specification is incomplete.

Clauses affected:	⌘	§ A.1.1.4.2.1

Other specs affected: ⌘

Y	N	
		Other core specifications
		Test specifications
		O&M Specifications

⌘

Other comments: ⌘ EP SCP TS 102 226 is impacted

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.

A.1.1.4.2.1 Toolkit Applet Specific Parameters

The toolkit applet specific parameters field is used to specify the ME and UICC resources the applet instance can use. These resources include the timers, the Bearer Independent protocol channels, menu items for the Set Up Menu and the Minimum Security Level. The Network Operator or Service Provider can also define the menu position and the menu identifier of the menus activating the applet. The following format is used to code the applet parameters:

Presence	Length	Name	Value
Mandatory	1	Length of Access Domain field	
Mandatory	1-p	Access Domain (see A.1.1.4.2.3)	
Mandatory	1	Priority level of the Toolkit applet instance (see A.1.1.4.2.4)	
Mandatory	1	Maximum number of timers allowed for this applet instance	
Mandatory	1	Maximum text length for a menu entry	
Mandatory	1	Maximum number of menu entries allowed for this applet instance	= m
Conditional See Note 1	/	Position of the first menu entry ('00' means last position)	
Conditional See Note 1	|	Identifier of the first menu entry ('00' means don't care)	
Conditional See Note 1	2*m bytes |	….	
Conditional See Note 1	|	Position of the last menu entry ('00' means last position)	
Conditional See Note 1	\	Identifier of the last menu entry ('00' means don't care)	
Optional	1	Maximum number of channels for this applet instance	
Optional	1	Length of Minimum Security Level field	
Conditional See Note 2	0-q	Minimum Security Level (MSL) (see A.1.1.4.2.5)	
The Presence column specifies whether it is mandatory or optional or conditional to include the corresponding parameter in the command data. If an optional parameter is included, then all the previous parameters in the above table shall be included also. Note 1: The Position and the Identifier of a menu entry are mandatory if m is greater than 0. Note 2: The MSL shall be included in the Toolkit Applet Specific Parameters if the length of MSL field is greater than 0.			

If the Maximum number of channels field is included in the command data then the Length of Minimum Security Level field shall also be included.

The following default values shall be assigned to the application for the following parameters if not present in the command data:

Name	**Value**
Maximum number of channels for this applet instance	See Note
Length of Minimum Security Level field	'00'
Note: This value shall be configurable by the card issuer.	

If the maximum number of timers required is greater than '08' (maximum numbers of timers specified in TS 31.111 [6]), the card shall return the Status Word '6A80', incorrect parameters in data field, to the Install(Install) command.

If the maximum number of channels required is greater than '07' (maximum numbers of channels specified in TS 31.111 [6]), the card shall return the Status Word '6A80', incorrect parameters in data field, to the Install(Install) command.

The position of the new menu entries is an absolute position among the existing ones.

A part of the item identifier shall be under the control of the card system and the other part under the control of the card issuer. Item identifiers are split in two ranges:

- [1,127] under control of the card issuer;

- [128,255] under the control of the toolkit framework.

If the requested item identifier is already allocated, or in the range [128,255], then the card shall reject the install command. If the requested item identifier is '00', the card shall take the first free value in the range [128,255].

3GPP TSG-T3 Meeting #26
Lisboa, PT, 11.-14.02.2003

Tdoc ⌘T3-030166

CR-Form-v7

CHANGE REQUEST

⌘ **31.116** **CR** **003** ⌘ **rev** **-** ⌘ Current version: **6.2.0** ⌘

*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 on behaviour for Response Packet
Source:	⌘	TSG-T3
Work item code:	⌘	TEI
Date:	⌘	13/02/2003
Category:	⌘	**A**
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)*

Reason for change:	⌘	A note about the Response packet introduce inconsistency.
Summary of change:	⌘	Suppression of the note which is in contradiction with another sentence.
Consequences if not approved:	⌘	Inconsistency in the specification.

Clauses affected:	⌘	4.2.1			
Other specs Affected:	⌘	**Y**	**N**		
		[ ]	[ ]	Other core specifications	⌘
		[ ]	[ ]	Test specifications	
		[ ]	[ ]	O&M Specifications	
Other comments:	⌘				

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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.

~~NOTE: if no PoR is requested, it is however permissible for the (U)SIM to send back data.~~

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 [5].