B U I L D I N G G L O B A L C O M M U N I C A T I O N S

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Tuesday, August 21, 2001

via electronic mail

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In the liaison document SCPz010011, there was a request from the EP-SCP to harmonize the Terminal Profile used within TIA/EIA-136 with the GSM 11.14 Terminal Profile. The attached Change Request was adopted during the meeting of TR-45·3 that convened 2001-08-13, and proposes an update to accomplish the harmonization in the Release 1999 series. We request that you review this proposal for its suitability. An individual from SBC TRI is prepared to represent this Change Request at the next meeting of SCP. Please let me know if other steps are necessary to have this correspondence considered at your next meeting.

Provided that you agree to incorporate this small change into 11.14, we will remove all text related to Terminal Profile from TIA/EIA-136-037, and update the R-UIM Management procedure in TIA/EIA-136-034 to only reference the single profile during the card session initialization.

In addition, SCPz010011 also noted that you were investigating the usage of the TON value 100 within the GSM and 3GPP communities, and we are interested in receiving any feedback regarding this issue.

If you have any further questions, please do not hesitate to contact me,

Peter W. Nurse, Chair,
ANSI Accredited TIA TR-45·3

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Tdoc T3-010xxx

CR-Form-v3

CHANGE REQUEST

⌘ **11.14** **CR** ⌘ rev **-** ⌘ Current version: **8.7.0** ⌘

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

Proposed change affects: ⌘ (U)SIM [X] ME/UE [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘ Terminal Profile		
Source:	⌘ TIA TR45.3		
Work item code:	⌘ CAT	***Date:*** ⌘	08/12/01
Category:	⌘ **B**	***Release:*** ⌘	***R99***

Use one of the following categories:
- ***F*** *(essential 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)*

Reason for change:	⌘ Harmonising the Terminal Profile command defined in TIA/EIA-136-037 with the one defined in GSM 11.14 as requested by CAT Ad-Hoc in Tdoc SCPz010011.
Summary of change:	⌘ Addition of Protocol Version for TIA/EIA-136C to the Terminal Profile command
Consequences if not approved:	⌘ Two different Terminal Profiles need to be interpreted by the mobile

Clauses affected:	⌘ 2, 5.2		
Other specs Affected:	⌘ [ ] Other core specifications [ ] 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/3G_Specs/CRs.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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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] not used

[2] 3GPP TS 01.04: "Abbreviations and acronyms".

[3] 3GPP TS 02.17: "Subscriber Identity Modules (SIM) Functional characteristics".

[4] 3GPP TS 02.30: "Man-Machine Interface (MMI) of the Mobile Station (MS)".

[5] 3GPP TS 23.038: "Alphabets and language-specific information".

[6] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS) Point-to-Point (PP)".

[7] 3GPP TS 23.041: "Technical realization of Short Message Service Cell Broadcast (SMSCB)".

[8] 3GPP TS 04.08: "Mobile radio interface layer 3 specification".

[9] 3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".

[10] 3GPP TS 24.080: "Mobile radio interface layer 3 supplementary services specification; Formats and coding".

[11] not used

[12] not used

[13] GSM 09.91: "Digital cellular telecommunications system; Interworking aspects of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface between Phase 1 and Phase 2".

[14] Not used.

[15] CCITT Recommendation E.164: "Numbering plan for the ISDN era".

[16] ISO/IEC 7816-3 (1997): "Identification cards - Integrated circuit(s) cards with contacts, Part 3: Electronic signals and transmission protocols".

[17] ISO/IEC 7816-6 (1995): "Identification cards - Integrated circuit(s) cards with contacts, Part 6 Inter-industry data elements".

[18] 3GPP TS 02.40: "Procedures for call progress indications".

[19] 3GPP TS 02.07: "Mobile Stations (MS) features".

[20] 3GPP TS 11.11: "Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".

[21] 3GPP TS 11.12: "Digital cellular telecommunications system (Phase 2); Specification of the 3 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".

[22] 3GPP TS 03.22: "Functions related to Mobile Station (MS) in idle mode".

[23] 3GPP TS 24.007: "Mobile radio interface signalling layer 3; General aspects".

[24] 3GPP TS 03.48: "Security Mechanisms for the SIM application toolkit".

[25] ISO/IEC 7816-4 (1995): "Identification cards - Integrated circuit(s) cards with contacts, Part 4: Inter-industry commands for interchange".

[26] 3GPP TS 22.042: "Network identity and timezone; Service description; Stage 1".

[27] 3GPP TS 27.007: "AT command set for GSM Mobile Equipment (ME)".

[28] 3GPP TS 03.22: "Functions related to Mobile Station (MS) in idle mode and group receive mode".

[29] ISO 639 (1988): "Code for the representation of names of languages".

[30] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS); Point-to-Point (PP)".

[31] 3GPP TS 22.002: "Digital cellular telecommunication system (Phase 2+); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN)".

[32] IETF RFC 1738: "Uniform Resource Locators (URL) : T. Berners-Lee, et al., December 1994.

[33] IETF RFC 768 "User Datagram Protocol (UDP)".

[34] IETF RFC 793 "Transmission Control Protocol (TCP)".

[35] TIA/EIA-136-123 "Third Generation Wireless – Digital Control Channel Layer 3, April 23, 2001"

5 Profile download

5.1 Procedure

The profile download instruction is sent by the ME to the SIM as part of the SIM initialization procedure. This procedure is specified in TS 11.11 [20]. In this procedure, the ME reads EF_{PHASE}. If EF_{PHASE} indicates that the SIM requires the ME to perform the profile download procedure, then the ME shall, after having performed the CHV1 verification procedure and before selecting EF_{IMSI} or EF_{LOCI}, send the TERMINAL PROFILE command, as specified below, to the SIM. The profile sent by the ME shall state the facilities relevant to SIM Application Toolkit that are supported by the ME.
This procedure is important, as it is by this that the SIM knows what the ME is capable of, and the SIM can then limit its instruction range accordingly. If no command is sent by the ME, the SIM shall assume that the ME does not support SIM Application Toolkit.

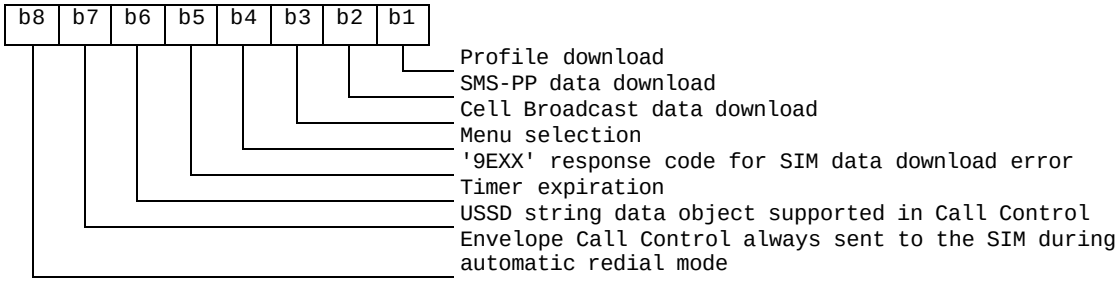
5.2 Structure and coding of TERMINAL PROFILE

Direction: ME to SIM
The command header is specified in TS 11.11 [20].
Command parameters/data:

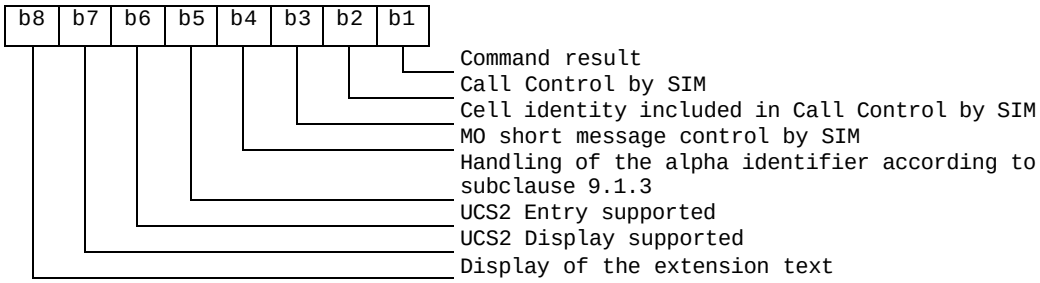
Description	Section	M/O	Length
Profile	-	M	lgth

- Profile:
  Contents: The list of SIM Application Toolkit 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

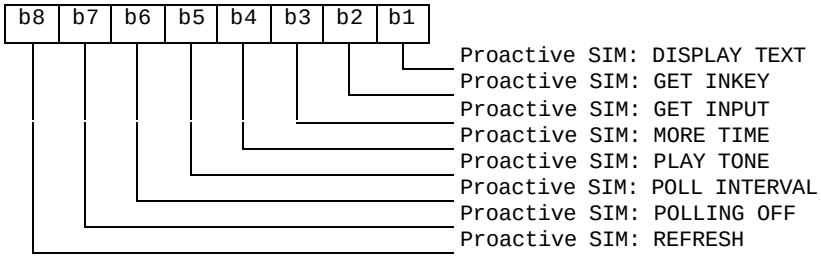
  First byte (Download):



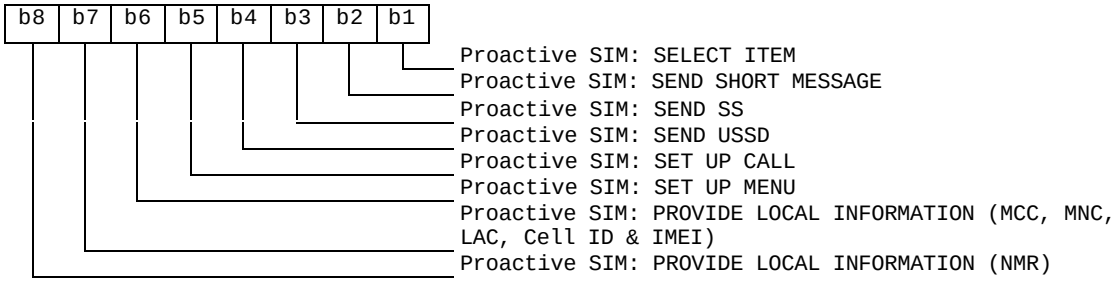
  Second byte (Other):



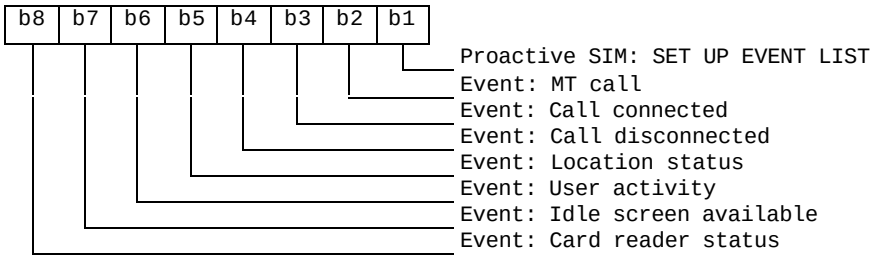
Third byte (Proactive SIM):



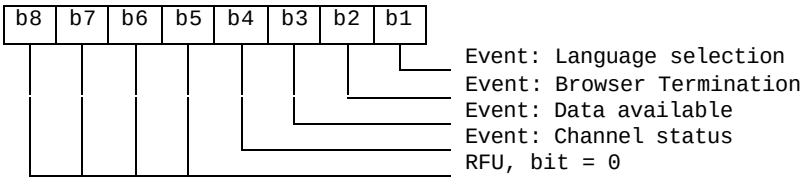
Fourth byte (Proactive SIM):



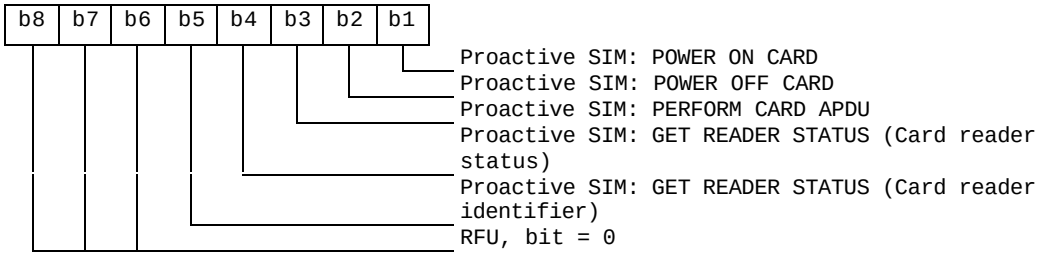
Fifth byte (Event driven information):



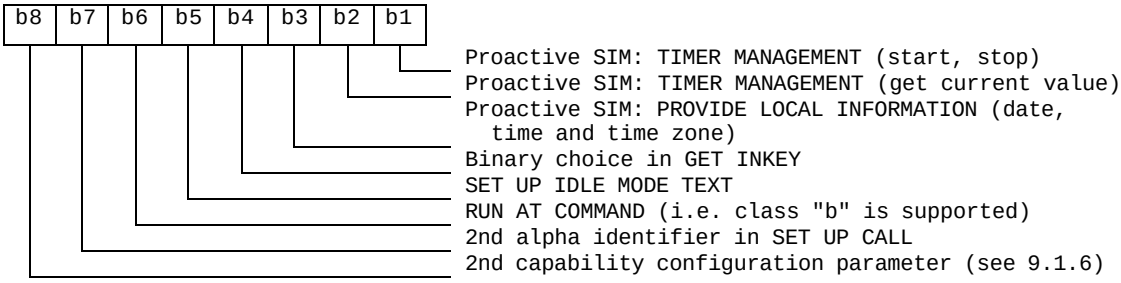
Sixth byte (Event driven information extensions):



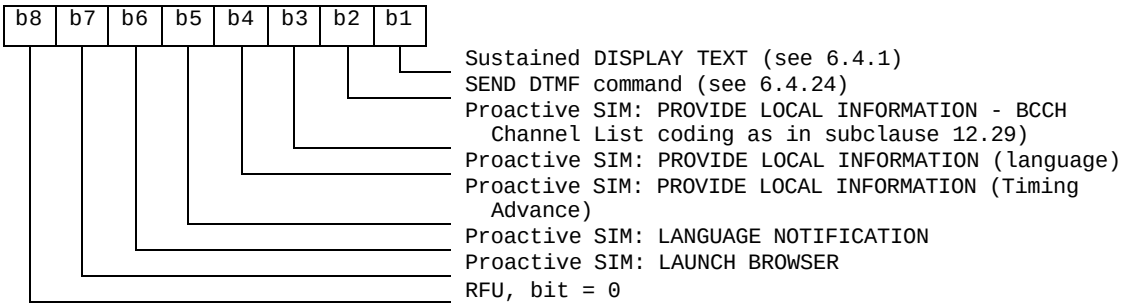
Seventh byte (Multiple card proactive commands) for class "a"



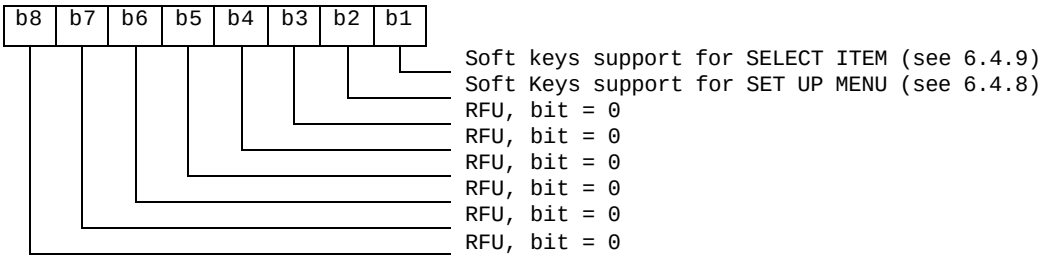
Eighth byte (Proactive SIM):



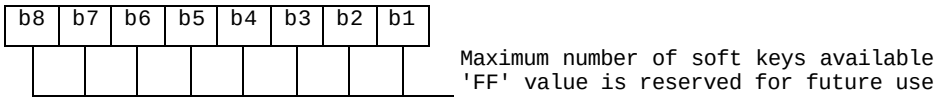
Ninth byte:



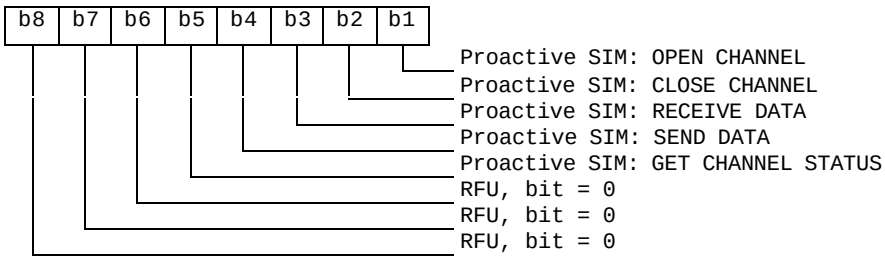
Tenth byte (Soft keys support):



Eleventh byte (Soft keys information):



Twelfth byte (Bearer Independent protocol proactive commands (class "e"):



Thirteenth byte (Bearer Independent protocol supported bearers (class "e"):

b8	b7	b6	b5	b4	b3	b2	b1	
								CSD supported by ME
								GPRS supported by ME
								RFU, bit = 0
								RFU, bit = 0
								RFU, bit = 0
								Number of channels supported by ME

Fourteenth byte (Screen height):

b8	b7	b6	b5	b4	b3	b2	b1	
								Number of characters supported down the ME display as defined in 5.3.1
								RFU, bit = 0
								Screen Sizing Parameters supported as defined in section 5.3

Fifteenth byte (Screen width):

b8	b7	b6	b5	b4	b3	b2	b1	
								Number of characters supported across the ME display as defined in 5.3.2
								Variable size fonts Supported

Sixteenth byte (Screen effects):

b8	b7	b6	b5	b4	b3	b2	b1	
								Display can be resized as defined in 5.3.3
								Text Wrapping supported as defined in 5.3.4
								Text Scrolling supported as defined in 5.3.5
								RFU
								RFU
								Width reduction when in a menu as defined in 5.3.6

Seventeenth byte: (Bearer independent protocol supported transport interface) for class "e":

b8	b7	b6	b5	b4	b3	b2	b1	
								TCP
								UDP
								RFU, bit = 0

Eighteenth byte: (TIA/EIA-136 facilities)

b8	b7	b6	b5	b4	b3	b2	b1	
								Protocol Version, coded as indicated in TIA/EIA-136-123 [35]
								RFU, bit = 0

Subsequent bytes:

b8	b7	b6	b5	b4	b3	b2	b1	
								RFU, bit = 0

RFU bits, and all bits of subsequent bytes, are reserved to indicate future facilities. A SIM supporting only the features of SIM Application Toolkit defined in the present document shall not check the value of RFU bits.

Response parameters/data: None.