3GPP TSG-T#9
Oahu, USA, 20-22 September 2000

Tdoc TP-000144

Agenda Item: 6.2.3

Source: T2

Title: R00 Change Requests

Document for: Approval

Spec	CR	Rev	Release	Subject	Cat	Vers-Curr	Vers-New	T2 Tdoc	Workitem
23.040	016		R00	Presence of TP-PI	F	4.0.0	4.1.0	T2-000459	SMS TEI
23.040	017		R00	Big endian integer representation	D	4.0.0	4.1.0	T2-000461	SMS TEI
23.040	018		R00	SMS Address fields section needs clarification	B	4.0.0	4.1.0	T2-000477	SMS TEI
23.040	019		R00	User prompt indication	B	4.0.0	4.1.0	T2-000485	SMS TEI
23.140	001		R00	Set of mandatory media formats for MMS	B	3.0.1	4.0.0	T2-000555	MMS
27.007	043		R00	Introduction of a new AT command +CUUS1 to manage User-to-User Information element	B	3.5.0	4.0.0	T2-000428	ASCI
27.007	044		R00	Indication of priority and/or sub-address in the unsolicited result code CCWA	B	3.5.0	4.0.0	T2-000449	ASCI
27.007	045		R00	eMLPP SIM Commands	B	3.5.0	4.0.0	T2-000542	ASCI
27.007	046		R00	VBS, VGCS SIM Commands	B	3.5.0	4.0.0	T2-000549	ASCI
27.007	047		R00	Extension of dial command for VBS and VGCS	B	3.5.0	4.0.0	T2-000550	ASCI
27.007	048		R00	Introduction of a new AT command +COTDI to manage Originator-to-dispatcher information element	B	3.5.0	4.0.0	T2-000551	ASCI

3GPP T2 Meeting #10
Galway, Ireland, 28 Aug - 01 Sep 2000

***Document* T2-000459**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

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23.040	CR	016	Current Version:	4.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-T#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [X]

Source: T2 **Date:** 2000-08-22

Subject: Presence of TP-PI

Work item: SMS TEI

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	
				Release 00	X

Reason for change: Presently some text is inconsistent with some tables concerning the presence of the TP-PI.

Clauses affected: 9.2.3.27

Other specs affected:

Other 3G core specifications		→ List of CRs:	
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:


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9.2.3.27 TP-Parameter-Indicator (TP-PI)

The TP-Parameter-Indicator comprises a number of octets between 1 and n where each bit when set to a 1 indicates that a particular optional parameter is present in the fields which follow. The TP-PI is present as part of the RP-User-Data in the RP-ACK or the RP-ERROR as indicated in sections 9.2.2.1a, 9.2.2.2a and 9.2.2.3~~for both the SMS-DELIVER TPDU and the SMS-SUBMIT TPDU~~.

The structure of the TP-PI is as follows:

Octet 1

bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
Extension bit	Reserved	Reserved	Reserved	Reserved	TP-UDL	TP-DCS	TP-PID

The most significant bit in octet 1 and any other TP-PI octets which may be added later is reserved as an extension bit which when set to a 1 shall indicate that another TP-PI octet follows immediately afterwards.

If the TP-UDL bit is set to zero then by definition then neither the TP-UDL field or the TP-UD field can be present.

If a Reserved bit is set to "1" then the receiving entity shall ignore the setting. The setting of this bit shall mean that additional information will follow the TP-User-Data, so a receiving entity shall discard any octets following the TP-User-Data.

3GPP T2/SMG4 Meeting #10
Galway, Ireland, 28 Aug - 01 Sep 2000

***Document* T2-000461**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

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23.040	CR	017	Current Version:	4.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-T#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [X]

Source: T2 **Date:** 2000-08-22

Subject: Big endian integer representation

Work item: SMS TEI

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification	X		Release 99	
				Release 00	X

Reason for change: Presently there is some ambiguous wording concerning the byte order of values not fitting into one octet.

Clauses affected: 9.1.2.1

Other specs affected:

Other 3G core specifications		→	List of CRs:
Other GSM core specifications		→	List of CRs:
MS test specifications		→	List of CRs:
BSS test specifications		→	List of CRs:
O&M specifications		→	List of CRs:

Other comments:

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9.1.2.1 Integer representation

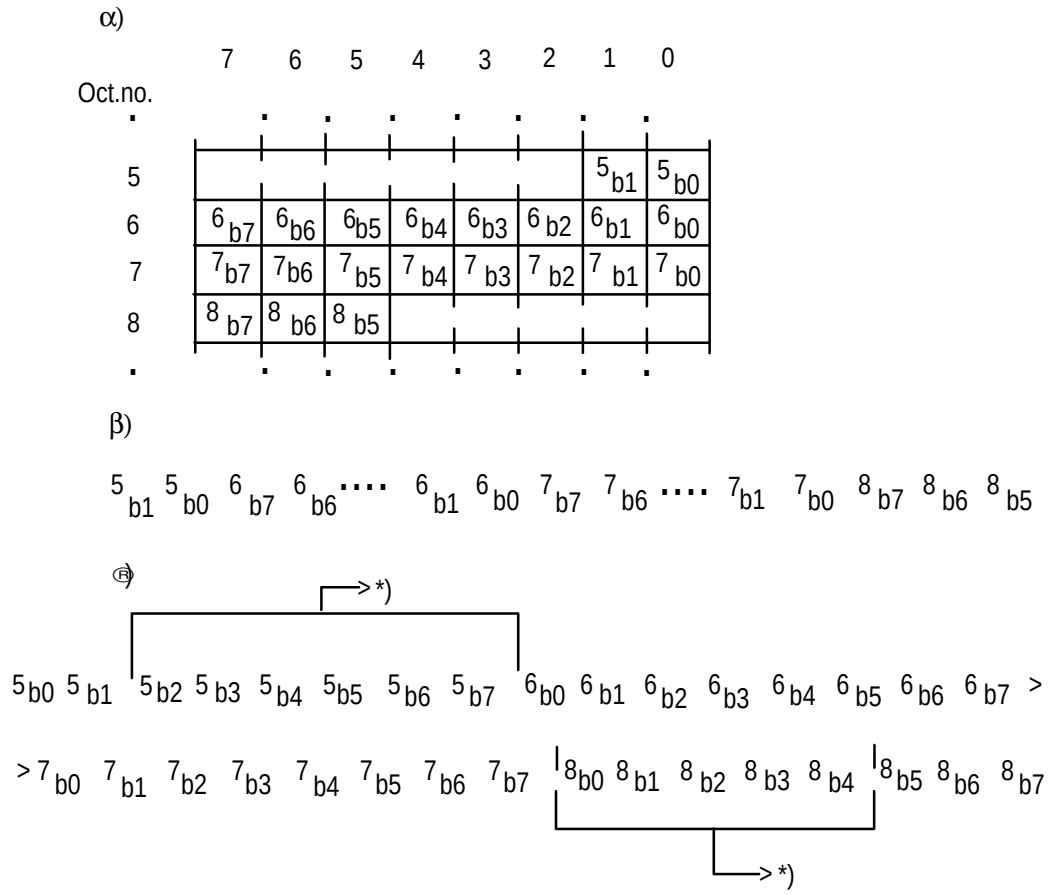
Wherever the bits from a number of octets, complete or in fractions, are to represent an integer, the interpretation shall be according to the following:

1) Between octets: The octets with the lowest octet numbers shall contain the most significant bits, i.e. the byte order shall be big endian.

2) Within an octet: The bits with the highest bit numbers shall be the most significant.

Below is given an example of octet and bit representation and transmission order of an integer represented field.

Let the 2 rightmost bits of octet no 5, the complete octet no 6 and 7, and the 3 leftmost bits of octet no 8 represent an integer, as shown in figure 8.



*): Bits not representing the integer.

Figure 8: 21 bits from the octets 5, 6, 7, and 8 in a short message α) shall represent an integer as shown in β), and shall be transmitted in an order as shown in Γ)

3GPP TSG-T2 #10
Galway, IRELAND
August 28th - September 1th 2000

T2-000477

CHANGE REQUEST

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23.040	CR	018	Current Version:	4.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-T #9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [ ]

Source: T2 **Date:**

Subject: SMS Address fields section needs clarification

Work item: SMS TEI

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature	X		Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	
				Release 00	X

Reason for change:

In 23.040 the address fields are introduced. The text is ambiguous when it comes to understanding which combinations may be used.

The TON has full explanation because it explains each code point which is valid and the invalid ones (i.e. ones which shall not be used) are marked as reserved.

The NPI says it applies for TON set to 000, 001, 010, and later on the text says that for addressing an SME any specified NPI can be used - implying but not stating that any reserved value is not free for use and shall not be used.

The implication in the text is that any other value is invalid. To clear up any ambiguity the text is changed and clarified. An existing codepoint identified as currently in use is also marked as Service Centre specific.

Clauses affected: 9.1.2.5

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments: None

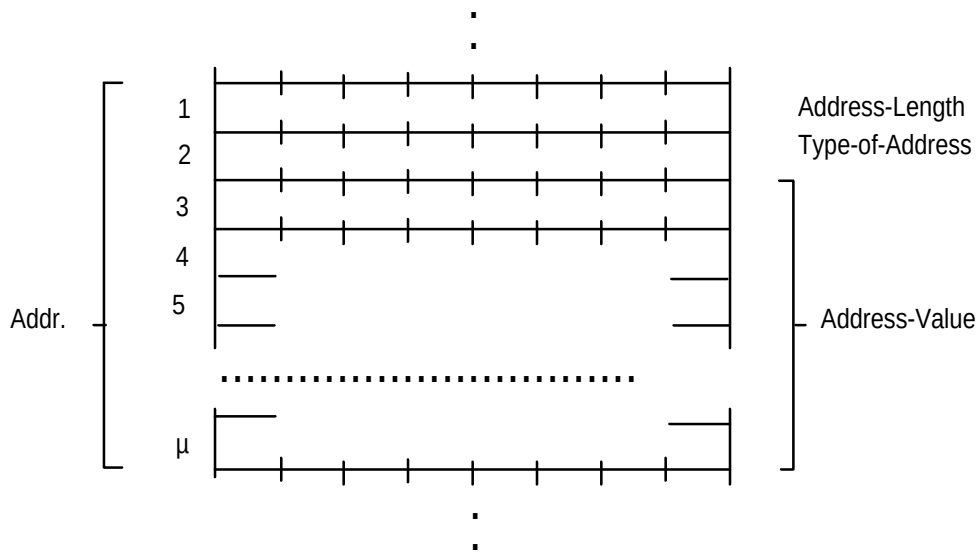
help.doc

<--------- double-click here for help and instructions on how to create a CR.

9.1.2.5 Address fields

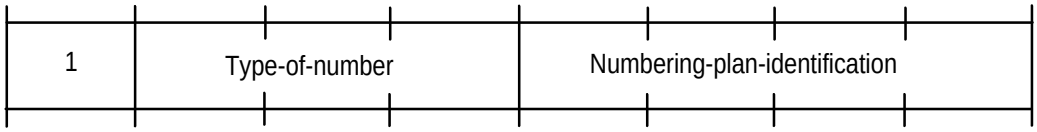
Address fields used by SM-RL are specified in 3G TS 24.011 [13] and 3G TS 29.002 [15].

Each address field of the SM-TL consists of the following sub-fields: An Address-Length field of one octet, a Type-of-Address field of one octet, and one Address-Value field of variable length; as shown below:



The Address-Length field is an integer representation of the number of useful semi-octets within the Address-Value field, i.e. excludes any semi octet containing only fill bits.

The Type-of-Address field format is as follows:



Type-of-number:

Bits 6 5 4

0 0 0	Unknown 1)
0 0 1	International number 2)
0 1 0	National number 3)
0 1 1	Network specific number 4)
1 0 0	Subscriber number 5)
1 0 1	Alphanumeric, (coded according to 3G TS 23.038 [9] GSM 7-bit default alphabet)
1 1 0	Abbreviated number
1 1 1	Reserved for extension

The MS shall interpret reserved values as "Unknown" but shall store them exactly as received.

The SC may reject messages with a type of number containing a reserved value or one which is not supported.

Reserved values shall not be transmitted by an SC conforming to this version of the specification..

1) "Unknown" is used when the user or network has no a priori information about the numbering plan. In this case, the Address-Value field is organized according to the network dialling plan, e.g. prefix or escape digits might be present.

2) The international format shall be accepted also when the message is destined to a recipient in the same country as the MSC or as the SGSN.

3) Prefix or escape digits shall not be included.

4) "Network specific number" is used to indicate administration/service number specific to the serving network, e.g. used to access an operator.

5) "Subscriber number" is used when a specific short number representation is stored in one or more SCs as part of a higher layer application. (Note that "Subscriber number" shall only be used in connection with the proper PID referring to this application).

Numbering-plan-identification ~~(applies for Type-of-number = 000,001,010)~~

Bits 3 2 1 0

0 0 0 0	Unknown
0 0 0 1	ISDN/telephone numbering plan (E.164 [17]/E.163[18])
0 0 1 1	Data numbering plan (X.121)
0 1 0 0	Telex numbering plan
0 1 0 1	Service Centre Specific plan 1)
0 1 1 0	Service Centre Specific plan 1)
1 0 0 0	National numbering plan
1 0 0 1	Private numbering plan
1 0 1 0	ERMES numbering plan (ETSI DE/PS 3 01-3)
1 1 1 1	Reserved for extension

All other values are reserved.

1) "Service Centre specific number" is used to indicate a numbering plan specific to External Short Message Entities attached to the SMSC.

For Type-of-number = 101 bits 3,2,1,0 are reserved and shall be transmitted as 0000. Note that for addressing any of the entities SC, MSC, SGSN or MS, Numbering-plan-identification = 0001 shall always be used. However, for addressing the SME, any specified Numbering-plan-identification value may be used.

The MS shall interpret reserved values as "Unknown" but shall store them exactly as received.

The SC may reject messages with a type of number containing a reserved value or one which is not supported.

Reserved values shall not be transmitted by an SC conforming to this version of the specification..

Within the Address-Value field, either a semi-octet or an alphanumeric1) representation applies.

The maximum length of the full address field (Address-Length, Type-of-Address and Address-Value) is 12 octets.

1) Applies only to addressing at the SM-TL.

3GPP T2/SMG4 Meeting #10
Galway, Ireland, 28 Aug - 01 Sep 2000

***Document* T2-000485**
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

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23.040	**CR**	**019**	Current Version:	4.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: TSG-T#9 *list expected approval meeting # here ↑*	for approval	X	strategic		*(for SMG use only)*
	for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [ ]

Source: T2 **Date:** 2000-08-31

Subject: User prompt indication

Work item: SMS TEI

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature	X		Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	
				Release 00	X

Reason for change: Presently there is no way for the originator to mark an SM that it contains objects which require user interaction at the time of reception.

Clauses affected: 9.2.3.24

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:


help.doc

<--------- double-click here for help and instructions on how to create a CR.

9.2.3.24 TP-User Data (TP-UD)

The length of the TP-User-Data field is defined in the PDU's of the SM-TL (see subclause 9.2.2).

The TP-User-Data field may comprise just the short message itself or a Header in addition to the short message depending upon the setting of TP-UDHI.

Where the TP-UDHI value is set to 0 the TP-User-Data field comprises the short message only, where the user data can be 7 bit (default alphabet) data, 8 bit data, or 16 bit (UCS2 [24]) data.

Where the TP-UDHI value is set to 1 the first octets of the TP-User-Data field contains a Header in the following order starting at the first octet of the TP-User-Data field.

Irrespective of whether any part of the User Data Header is ignored or discarded, the MS shall always store the entire TPDU exactly as received.

FIELD	LENGTH
Length of User Data Header	1 octet
Information-Element-Identifier "A"	1 octet
Length of Information-Element "A"	1 octet
Information-Element "A" Data	1 to "n" octets
Information-Element-Identifier "B"	1 octet
Length of Information-Element "B"	1 octet
Information-Element "B" Data	1 to "n" octets
Information-Element-Identifier "n"	1 octet
Length of Information-Element "n"	1 octet
Information-Element "n" Data	1 to "n" octets

The diagram below shows the layout of the TP-User-Data-Length and the TP-User-Data for uncompressed GSM 7 bit default alphabet data. The UDHL field is the first octet of the TP-User-Data content of the Short Message.

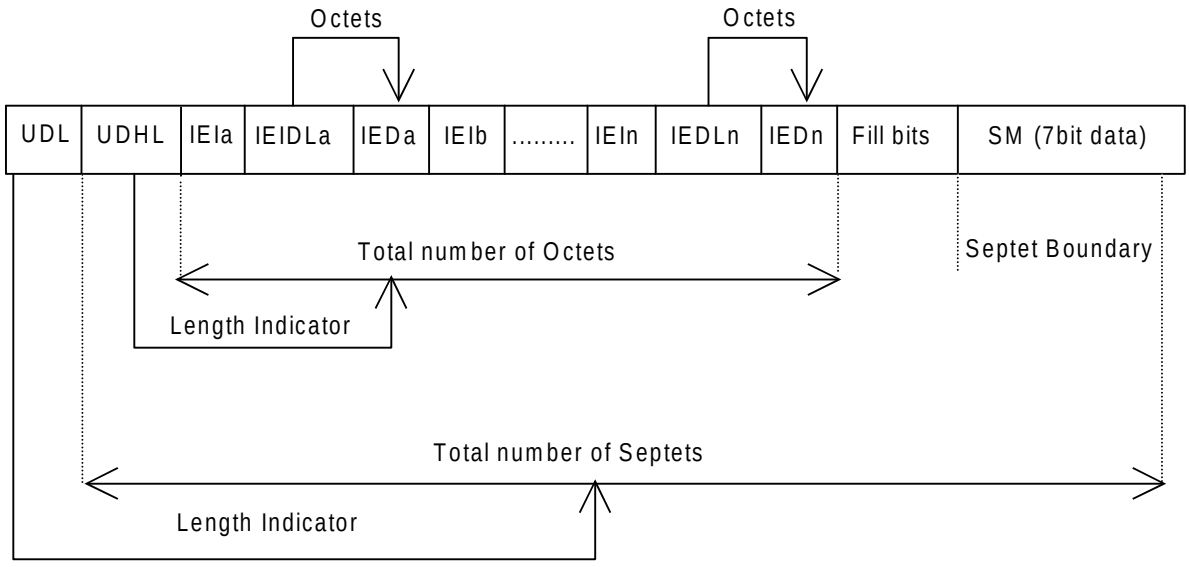

Figure 9.2.3.24 (a)

The diagram below shows the layout of the TP-User-Data-Length and the TP-User-Data for uncompressed 8 bit data or uncompressed UCS2 data. The UDHL field is the first octet of the TP-User-Data content of the Short Message.

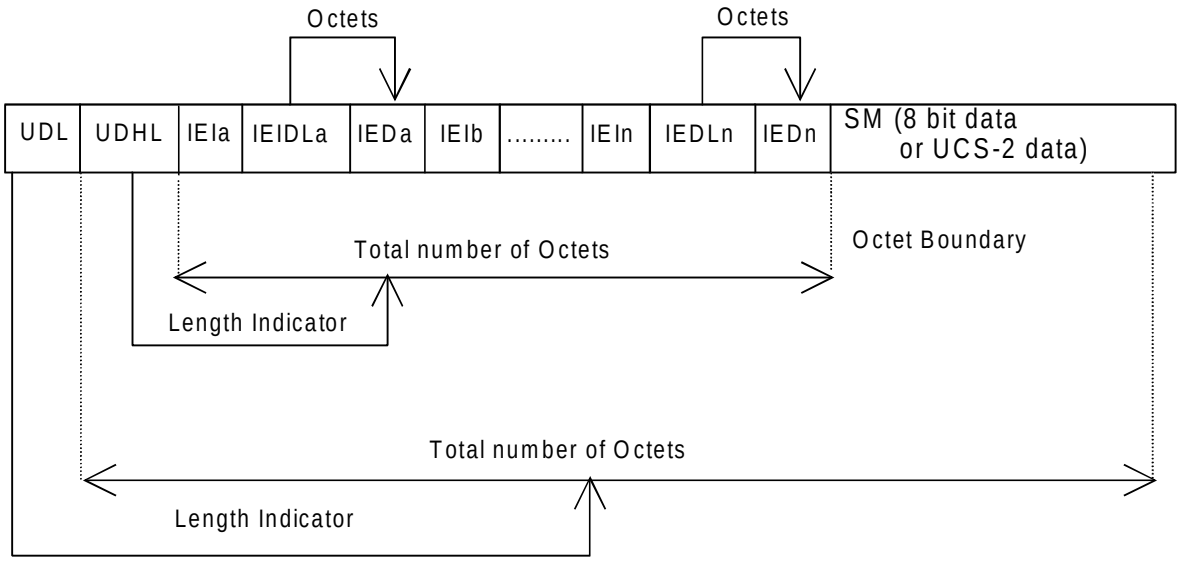

Figure 9.2.3.24 (b)

The diagram below shows the layout of the TP-User-Data-Length and the TP-User-Data for compressed GSM 7 bit default alphabet data, compressed 8 bit data or compressed UCS2 data. The UDHL field is the first octet of the TP-User-Data content of the Short Message.

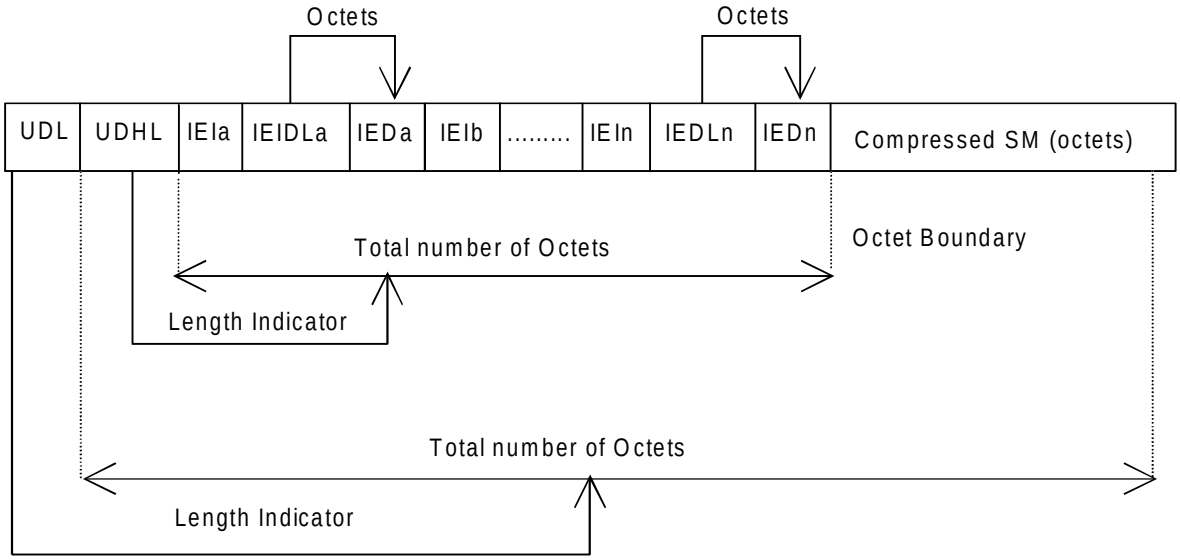

Figure 9.2.3.24 (c)

The definition of the TP-User-Data-Length field which immediately precedes the "Length of User Data Header" is unchanged and shall therefore be the total length of the TP-User-Data field including the Header, if present. (see 9.2.3.16)

The "Length-of-Information-Element" fields shall be the integer representation of the number of octets within its associated "Information-Element-Data" field which follows and shall not include itself in its count value.

The "Length-of-User-Data-Header" field shall be the integer representation of the number of octets within the "User-Data-Header" information fields which follow and shall not include itself in its count or any fill bits which may be present (see text below).

Information Elements may appear in any order and need not necessarily follow the order used in the present document.

In the case where there are no multiple instances of any Information Element type: If Information Elements are duplicated (either with the same or different content), within one single SM or within one segment of a concatenated message then the contents of the last occurrence of the Information Element shall be used.

In the case where there are multiple instances of any Information Element type: If certain types of Information Elements are duplicated (either with the same or different content) within one single SM or within one segment of a concatenated message and there is a contradiction in meaning (e.g. more than one Special Message Indication for voice) or there is a contradiction of Information Element types (e.g. an 8bit port address and a 16bit port address), then the contents of the last occurrence of the Information Element shall be used. Other types of Information Elements may occur more than once when there is additional information of the same type to be conveyed. The individual specifications for each Information Element will state if multiple use is permitted and in such a case will also indicate the maximum number of occurrences within one User Data Header.

If the length of the User Data Header overall is such that there appear to be too few or too many octets in the final Information Element then the whole User Data Header shall be ignored.

If any reserved values are received within the content of any Information Element then that part of the Information Element shall be ignored.

The Information Element Identifier octet shall be coded as follows:

VALUE (hex)	MEANING
00	Concatenated short messages, 8-bit reference number
01	Special SMS Message Indication
02	Reserved
03	Value not used to avoid misinterpretation as <LF> character
04	Application port addressing scheme, 8 bit address
05	Application port addressing scheme, 16 bit address
06	SMSC Control Parameters
07	UDH Source Indicator
08	Concatenated short message, 16-bit reference number
09	Wireless Control Message Protocol
0A	Text Formatting
0B	Predefined Sound
0C	User Defined Sound (iMelody max 128 bytes)
0D	Predefined Animation
0E	Large Animation (16*16 times 4 = 32*4 =128 bytes)
0F	Small Animation (8*8 times 4 = 8*4 =32 bytes)
10	Large Picture (32*32 = 128 bytes)
11	Small Picture (16*16 = 32 bytes)
12	Variable Picture
13	User prompt indicator
14~~3~~-1F	Reserved for future EMS features (see subclause 3.10)
20	RFC 822 E-Mail Header
21-6F	Reserved for future use
70 – 7F	(U)SIM Toolkit Security Headers
80 – 9F	SME to SME specific use
A0 – BF	Reserved for future use
C0 – DF	SC specific use
E0 – FF	Reserved for future use

A receiving entity shall ignore (i.e. skip over and commence processing at the next information element) any information element where the IEI is Reserved or not supported. The receiving entity calculates the start of the next information element by looking at the length of the current information element and skipping that number of octets.

The SM itself may be coded as 7, 8 or 16 bit data.

If 7 bit data is used and the TP-UD-Header does not finish on a septet boundary then fill bits are inserted after the last Information Element Data octet up to the next septet boundary so that there is an integral number of septets for the entire TP-UD header. This is to ensure that the SM itself starts on an septet boundary so that an earlier Phase mobile shall be capable of displaying the SM itself although the TP-UD Header in the TP-UD field may not be understood.

It is optional to make the first character of the SM itself a Carriage Return character encoded according to the default 7 bit alphabet so that earlier Phase mobiles, which do not understand the TP-UD-Header, shall over-write the displayed TP-UD-Header with the SM itself.

If 16 bit (USC2) data is used then padding octets are not necessary. The SM itself shall start on an octet boundary.

If 8 bit data is used then padding is not necessary. An earlier Phase mobile shall be able to display the SM itself although the TP-UD header may not be understood.

It is also possible for mobiles not wishing to support the TP-UD header to check the value of the TP-UDHI bit in the SMS-Deliver PDU and the first octet of the TP-UD field and skip to the start of the SM and ignore the TP-UD header.

9.2.3.24.10.1.10 User Prompt Indicator

With the User Prompt Indicator a sending entity is able to indicate to the receiving entity, that the following object is intended to be handled at the time of reception, e.g. by means of user interaction. The object may be a picture, an animation, a User Defined Sound or a combination of these.

For example the User Prompt Indicator may be used when sending an operators logo to the ME that should be displayed instead of the operators name in standby mode.

When receiving the object the user shall be prompted to accept or discard the object. After this user interaction the SM may be discarded.

The User Prompt Indicator IE shall immediately precede the corresponding object IE(s).

If a User Prompt Indicator IE is not followed by a corresponding object IE it shall be discarded.

The Information-Element-Data octet(s) shall be coded as follows.

Octet 1 Number of corresponding objects

This octet shall contain the number of corresponding objects as an integer value.

3GPP TSG-T2 #10
Galway, Ireland
28 August – 01 September 2000

T2-000555

CHANGE REQUEST

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23.140	CR	001	Current Version:	3.0.1

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	T#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: (U)SIM ☐ ME ☐ UTRAN / Radio ☐ Core Network ☐
(at least one should be marked with an X)

Source: T2 **Date:**

Subject: Set of mandatory media formats for MMS

Work item: MMS R'00

Category: *(only one category shall be marked with an X)*

F	Correction	
A	Corresponds to a correction in an earlier release	
B	Addition of feature	X
C	Functional modification of feature	
D	Editorial modification	

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	
Release 00	X

Reason for change: For the sake of interoperability of MMS between terminals and MMS network equipment of different manufacturers GSMA SERG requested the definition of a minimum set of mandatory media formats for MMS.

Clauses affected: Chapter 2 (References); Section 5.1.2 (Minimum set of supported formats)

Other specs Affected:

Other 3G core specifications	☐	→ List of CRs:
Other GSM core specifications	☐	→ List of CRs:
MS test specifications	☐	→ List of CRs:
BSS test specifications	☐	→ List of CRs:
O&M specifications	☐	→ List of CRs:

Other comments:

help.doc

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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.

[1] 3G TS 22.140: "Multimedia Messaging Service".

[2] 3G TR 21.905: "Vocabulary for 3GPP Specifications".

[3] "Wireless Application Environment Specification", WAP Forum, April 30th, 1998. URL: http://www.wapforum.org/.

[4] 3G TS 23.057: "Mobile Station Application Execution Environment".

[5] RFC 822 Standard for the format of ARPA Internet text messages, IETF.

[6] RFC 2046 Multipurpose Internet Mail extention (MIME) Part Two: Media Types, IETF.

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[38] 3G TR 26.911: "Codec(s) for Circuit Switched Multimedia Telephony Service; Terminal Implementor's Guide".

[39] Internet draft " RTP payload format for AMR"; IETF URL: http://search.ietf.org/internet-drafts/draft-ietf-avt-rtp-amr-00.txt

NOTE: Reference [39] has to be replaced by the appropriate RFC number once the internet draft is approved within the IETF (IETF approval is scheduled to early November 2000).

…

5 Functional Description of Involved MMS Elements

5.1 MMS User Agent

5.1.1 MMS User Agent operations

The MMS User Agent shall provide the following application layer functionalities:-

- the MM composition;
- the MM presentation;
- the presentation of notifications to the user;
- the retrieval of MMs (initiate MM delivery to the User Agent).

The MMS User Agent may provide additional application layer functionalities such as:-

- the signing of an MM on an end-user to end-user basis;
- the decryption and encryption of a MM on an end-user to end-user basis;
- all aspects of storing MMs on the terminal and/or USIM;
- the handling of external devices;
- the user profile management.

This optional list of additional functionalities of the MMS User Agent is not exhaustive.

5.1.2 Minimum set of supported formats

Multiple media elements shall be combined into a composite single MM using MIME multipart format as defined in RFC 2046 [6]. The media type of a single MM element shall be identified by its appropriate MIME type whereas the media format shall be indicated by its appropriate MIME subtype.

In order to guarantee a minimum support and compatibility between multimedia messaging capable terminals, the following media formats shall be at least supported.

Minimum set of supported media type Text formats:-

- plain text. Any character encoding (charset) that contains a subset of the logical characters in Unicode [7] shall be used (e.g. US-ASCII [8], ISO-8859-1[9], UTF-8[10], Shift_JIS, etc.).

Unrecognised subtypes of "text" shall be treated as subtype "plain" as long as the MIME implementation knows how to handle the charset. Any other unrecognised subtype and unrecognised charset shall be treated as "application/octet - stream".

In order to guarantee SMS interoperability, SMS 3G TS 24.011 [11] RP-DATA RPDU encapsulation defined in subclause 7.3.1 shall be supported. MIME type application/x-sms shall be used for this purpose.

NOTE: SMS MIME type shall be used as soon as the MIME registration has been completed.

Minimum set of supported media formats or codecs for MMS User Agents supporting media type Audio:-

- AMR [12]; organised in the format specified in chapter 7.2 of [39]

Minimum set of supported media formats or codecs for MMS User Agents supporting media type Image:-

- Baseline JPEG [17].

To ensure interoperability with formats widely used e.g. in the internet community the support of the following formats or codecs is suggested:-

Suggested formats or codecs for media type Audio:-

- ~~AMR [12]/ EFR; organised in octet format as specified in 3G TS 26.101 and 3G TS 26.101 Annex A [13]~~
- MP3 [14]
- MIDI [15]
- WAV [16]

Suggested formats or codecs for media type Image:-

- ~~JPEG [17].~~
- GIF 89a [18].

Suggested formats or codecs for media type Video:-

- MPEG 4 (Visual Simple Profile, Level 1) [19] according to the restrictions specified in 3G TS 26.911 [38].
- ITU-T H.263 [20].
- Quicktime [21].

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Document* *T2-000428

CHANGE REQUEST

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3G 27.007	**CR**	043	Current Version:	3.5.0

↑ *CR number as allocated by MCC support team*

For submission to: T#9 *list expected approval meeting # here ↑*	for approval	X	Strategic		*(for SMG use only)*
	For information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [ ]

Source: T2 **Date:** 11-08-2000

Subject: Introduction of a new AT command +CUUS1 to manage User-to-User Information element

Work item: ASCI

Category: *(only one category shall be marked with an X)*

F	Correction	
A	Corresponds to a correction in an earlier release	
B	Addition of feature	X
C	Functional modification of feature	
D	Editorial modification	

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	
Release 00	X

Reason for change: There is no way forseen to configure the User-to-User IE to send in an implicit activation of the UU Service 1. There is also no way to inform the MS on the value on a incoming User-to-User IE

Clauses affected: New sub-clause

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

NEW Sub-Clause

User to User Signalling Service 1 +CUUS1

+CUUS1 action command syntax

Command	Possible response(s)
+ CUUS1 =[<n>[,<m>[,<message>[,<UUIE>[,<message>[,<UUIE>[,...]]]]]]]	*+CME ERROR: <err>*
+ CUUS1?	+ CUUS1: <n>,<m>[,<message>,<UUIE>[,<message>,<UUIE>[,...]]]
+ CUUS1=?	+ CUUS1: (list of supported <n>s), (list of supported <m>s), (list of supported <message>s), (list of supported <messageI>s), (list of supported <messageU>s)

Description

This command allows control of the User-to-User Signalling Supplementary Service 1 (UUS1) according to 3G 22.087.

Parameters <message> and <UUIE> are used to activate/deactivate the implicit request of the User-to-User Signalling Supplementary Service 1.
When <message> and <UUIE> are both present the string specified in <UUIE> is included as the ~~part~~ value part of the User-to-User Information Element (as defined in 3G 24.008) into all subsequent messages of type <message>. If parameter <message> is present but parameter <UUIE> is not present then the User-to-User Information Element shall not be present in subsequent messages of type <message>.

Parameters <n> and <m> are used to enable/disable the presentation of incoming User-to-User Information Elements.
When <n> = 1 and a User-to-User Information is received after a mobile originated call setup or after hanging up a call, intermediate result code +CUUS1I: <messageI>,<UUIE> is sent to the TE.
When <m> = 1 and a User-to-User Information is received during a mobile terminated call setup or during a remote party call hangup, unsolicited result code +CUUS1U: <messageU>,<UUIE> is sent to the TE.

Test command returns values supported by the TA as a compound value.

The interaction of this command with other commands based on other supplementary services is described in the 3G standard.

Defined values

<n> (parameter sets/shows the +CUUS1I result code presentation status in the TA)

0 disable.

1 enable.

<m> (parameter sets/shows the +CUUS1U result code presentation status in the TA)

0 disable.

1 enable.

<message> (type of message containing the outgoing User-to-User Information Element)

0 ANY

1 SETUP

2 ALERT

3 CONNECT

4 DISCONNECT

5 RELEASE

6 RELEASE COMPLETE

<messageI> (type of message containing the intermediate User-to-User Information Element)

0 ANY

1 ALERT

2 PROGRESS

3 CONNECT (sent after +COLP if enabled)

4 RELEASE

<messageU> (type of message containing the unsollicited User-to-User Information Element)

0 ANY

1 SETUP (returned after +CLIP if presented, otherwise after every RING or +CRING)

2 DISCONNECT

3 RELEASE COMPLETE

< UUIE>: the User-user Information Element (as defined in 3G 24.008) in hexadecimal character format (for hexadecimal format, refer +CSCS).

Note: if the TA does not distinguish the type of message containing the User-to-user Information Element, it can use the value for ANY message.

Implementation

Optional.

*** NEXT SECTION MODIFIED ***

Annex B (normative): Summary of result codes

V.25ter [14] result codes which can be used in GSM and codes defined in the present document:

Table B.1: Result codes

Verbose result code (V.25ter command V1 set)	Numeric (V0 set)	Type	Description
+CCCM: <ccm>	as verbose	unsolicited	refer subclause 7.15 $(AT R97)$
+CCWA: <number>,<type>,<class>[,<alpha>]	as verbose	unsolicited	refer subclause 7.11
+CCWV	as verbose	unsolicited	refer subclause 8.28
+CDEV: <elem>,<text>	as verbose	unsolicited	refer subclause 8.10
+CIEV: <ind>,<value>	as verbose	unsolicited	refer subclause 8.10
+CKEV: <key>,<press>	as verbose	unsolicited	refer subclause 8.10
+CLAV: <code>	as verbose	unsolicited	refer subclause 8.
+CLIP: <number>,<type>[,<subaddr>,<satype>[,<alpha>]]	as verbose	unsolicited	refer subclause 7.6
+CME ERROR: <err>	as verbose	final	refer subclause 9.2
+COLP: <number>,<type>[,<subaddr>,<satype>[,<alpha>]]	as verbose	intermediate	refer subclause 7.8
+CR: <type>	as verbose	intermediate	refer subclause 6.8
+CREG: <stat>[,<lac>,<ci>]	as verbose	unsolicited	refer subclause 7.2
+CRING: <type>	as verbose	unsolicited	refer subclause 6.11
+CSSI: <code1>[,<index>]	as verbose	intermediate	refer subclause 7.16
+CSSU: <code2>[,<index>[,<number>,<type>[,<subaddr>,<satype>]]]	as verbose	unsolicited	refer subclause 7.16
+CUUS1I: <messageI>	as verbose	intermediate	TBD
+CUUS1U: <messageU>	as verbose	unsolicited	TBD
+CUSD: <m>[,<str>,<dcs>]	as verbose	unsolicited	refer subclause 7.14
+DR: <type>	as verbose	intermediate	refer subclause 6.13
+ILRR: <rate>	as verbose	intermediate	refer subclause 4.3
BUSY	6	final	busy signal detected
CONNECT	1	intermediate	connection has been established
CONNECT <text>	manufacturer specific	intermediate	as CONNECT but manufacturer specific <text> gives additional information (e.g. connection data rate)
ERROR	4	final	command not accepted
NO ANSWER	7	final	connection completion timeout
NO CARRIER	3	final	connection terminated
NO DIALTONE	5	final	no dialtone detected
OK	0	final	acknowledges execution of a command line
RING	2	unsolicited	incoming call signal from network

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3G 27.007	**CR**	**044**	Current Version:	3.5.0

↑ *CR number as allocated by MCC support team*

For submission to: T#9 *list expected approval meeting # here ↑*	for approval	X	Strategic		*(for SMG use only)*
	For information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [ ]

Source: T2 **Date:** 30-08-2000

Subject: Indication of priority and/or sub-address in the unsolicited result code CCWA

Work item: ASCI

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2
A	Corresponds to a correction in an earlier release			Release 96
B	Addition of feature	X		Release 97
C	Functional modification of feature			Release 98
D	Editorial modification			Release 99
				Release 00 X

Reason for change: There is no way in the Call Waiting to indicate the priority of the Call and/or sub-address.

Clauses affected: 7.11

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

7.11 Call waiting +CCWA

Table 1: +CCWA parameter command syntax

Command	Possible response(s)
+CCWA=[<n>[,<mode>[,<class>]]]	*+CME ERROR: <err>* **when <mode>=2 and command successful** +CCWA: <status>,<class1> [<CR><LF>+CCWA: <status>,<class2> [...]]
+CCWA?	+CCWA: <n>
+CCWA=?	+CCWA: (list of supported <n>s)

Description

This command allows control of the Call Waiting supplementary service according to GSM 02.83 [5]. Activation, deactivation and status query are supported. When querying the status of a network service (<mode>=2) the response line for 'not active' case (<status>=0) should be returned only if service is not active for any <class>. Parameter <n> is used to disable/enable the presentation of an unsolicited result code +CCWA: <number>,<type>,<class>,[<alpha>][,<CLI validity>[,<subaddr>,<satype>[,<priority>]]] to the TE when call waiting service is enabled. Command should be abortable when network is interrogated.

The interaction of this command with other commands based on other GSM supplementary services is described in the GSM standard.

Test command returns values supported by the TA as a compound value.

Defined values

<n> (sets/shows the result code presentation status in the TA):

0 disable

1 enable

<mode> (when <mode> parameter is not given, network is not interrogated):

0 disable

1 enable

2 query status

<class*x*> is a sum of integers each representing a class of information (default 7):

1 voice (telephony)

2 data (refers to all bearer services; with <mode>=2 this may refer only to some bearer service if TA does not support values 16, 32, 64 and 128)

4 fax (facsimile services)

8 short message service

16 data circuit sync

32 data circuit async

64 dedicated packet access

128 dedicated PAD access

<status>:

0 not active

1 active

<number>: string type phone number of calling address in format specified by <type>

<type>: type of address octet in integer format (refer GSM 04.08 [8] subclause 10.5.4.7)

<alpha>: optional string type alphanumeric representation of <number> corresponding to the entry found in phonebook; used character set should be the one selected with command Select TE Character Set +CSCS

<CLI validity>:

0 CLI valid

1 CLI has been withheld by the originator.

2 CLI is not available due to interworking problems or limitations of originating network.

When CLI is not available (<CLI validity>=2), <number> shall be an empty string ("") and <type> value will not be significant. Nevertheless, TA may return the recommended value **128** for <type> (TON/NPI unknown in accordance with GSM 04.08 [8] subclause 10.5.4.7).
When CLI has been withheld by the originator, (<CLI validity>=1) and the CLIP is provisioned with the "override category" option (refer GSM 02.81[3] and GSM 03.81[40]), <number> and <type> is provided. Otherwise, TA shall return the same setting for <number> and <type> as if the CLI was not available.

<subaddr>: string type subaddress of format specified by <satype>

<satype>: type of subaddress octet in integer format (refer GSM 04.08 [8] subclause 10.5.4.8)

<priority>: optional digit type parameter indicating that the eMLPP priority level of the incoming call. The priority level values are as defined in eMLPP specification 3G TS 22.067.

Implementation

Optional.

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CHANGE REQUEST

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3G 27.007	**CR**	**045**	Current Version:	3.5.0

↑ *CR number as allocated by MCC support team*

For submission to: T#9	for approval	X	Strategic		*(for SMG use only)*
list expected approval meeting # here ↑	For information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME	X	UTRAN / Radio		Core Network	

Source: T2 **Date:** 30-08-2000

Subject: eMLPP SIM Commands

Work item: ASCI

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature	X		Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	
				Release 00	X

Reason for change: AT SIM commands relevant to eMLPP were missing in 27.007.

Clauses affected: New sub-clause

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

NEW Sub-clause

eMLPP subscriptions +CPPS

Table [tbd]: +CPPS action command syntax

Command	Possible response(s)
+CPPS	+CPPS: <priority>[,<priority>[...]] *+CME ERROR: <err>*
+CPPS=?	

Description

This command works with SIM Card and when the GSM Application is selected in UICC. Function with USIM is for further study. This command returns all eMLPP priority subscriptions of the user stored on the SIM EF_{eMLPP}. If no explicit priority level subscription is stored on the SIM EF_{eMLPP} the result code OK is returned.

Defined values

<priority>: integer type, eMLPP subscription to priority level {0,1,..,4} as defined in 3G TS 22.067 [45].

Implementation

Mandatory for a ME supporting AT commands only and eMLPP is implemented.

Fast call setup conditions +CFCS

Table [tbd]: +CFCS action command syntax

Command	Possible response(s)
+CFCS=<priority>,<status>	*+CME ERROR: <err>*
+CFCS?	+CFCS: <priority>[,<priority>[...]] *+CME ERROR: <err>*
+CFCS=?	+CFCS: (list of supported <priority>,<status>)

Description

This command works with SIM Card and when the GSM Application is selected in UICC. Function with USIM is for further study. The set command is used to edit the status of the priority level for fast call set-up stored on the SIM EF_{eMLPP}. If the user has no subscription to the priority level status he wants to edit, an ERROR or +CME ERROR result code is returned.

The read command returns all enabled priority levels for fast call set-up stored on the SIM EF_{eMLPP}. If no priority level is enabled for fast call set-up, the result code OK is returned.

Defined values

<priority>: integer type, eMLPP fast call set-up priority level {0,1,..,4} as defined in 3G TS 22.067 [45]

<status>: integer type

0 disable <priority> for fast call set-up

1 enable <priority> for fast call set-up

Implementation

Mandatory for a ME supporting AT commands only and eMLPP is implemented.

Automatic answer for eMLPP Service +CAAP

Table [tbd]: +CAAP action command syntax

Command	Possible response(s)
+CAAP=<priority>,<status>	*+CME ERROR: <err>*
+CAAP?	+CAAP: <priority>[,<priority> [...]] *+CME ERROR: <err>*
+CAAP=?	+CAAP: (list of supported <priority>,<status>)

Description

This command works with SIM Card and when the GSM Application is selected in UICC. Function with USIM is for further study. The set command is used to edit the status of the priority level for automatic answering for eMLPP stored on the SIM EF_{AAeM}. If the user has no subscription to the priority level status he wants to edit, an ERROR or +CME ERROR result code is returned.

The read command returns all enabled priority levels for automatic answering for eMLPP stored on the SIM $EF_{AAeM.}$ If no priority level is enabled for automatic answering for eMLPP, the result code OK is returned.

Defined values

<priority>: eMLPP automatic answer priority level value {A,B,0,1,..,4} as defined in 3G TS 22.067 [45]

<status>: integer type

0 disable eMLPP <priority> for automatic answering

1 enable eMLPP <priority> for automatic answering

Implementation

Mandatory for a ME supporting AT commands only and eMLPP is implemented.

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CHANGE REQUEST

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3G 27.007	**CR**	**046**	Current Version:	3.5.0

↑ *CR number as allocated by MCC support team*

For submission to:	T#9	for approval	X	Strategic		*(for SMG*
list expected approval meeting # here ↑		For information		non-strategic		*use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME	X	UTRAN / Radio		Core Network	

Source: T2 **Date:** 31-08-2000

Subject: VBS, VGCS SIM Commands

Work item: ASCI

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature	X		Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	
				Release 00	X

Reason for change: AT SIM commands relevant to VBS, VGCS were missing

Clauses affected: New sub-clause

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

New Sub-clause

11.3 SIM Commands supporting the VGCS and VBS

11.3.1 VGCS subscriptions and GId status +CGCS

Table Ref.@: +CGCS action command syntax

Command	Possible response(s)
+CGCS=<GId>,<status>	*+CME ERROR: <err>*
+CGCS?	+CGCS: <GId>,<status><CR><LF> [+CGCS: <GId>,<status><CR><LF> [...]] *+CME ERROR: <err>*
+CGCS=?	+CGCS: (list of supported ~~<priority~~GId>s), (list of supported <status>s)

Description

This command works with SIM Card and when the GSM Application is selected in UICC. Function with USIM is for further study. The set command is used to edit the status of the GId EF_{VGCSS} on the SIM. The read command returns all subscribed GIds in EF_{VGCS} and their status in EF_{VGCSS} from the SIM.

Defined values

<GId> integer type, group Id as specified in 3G TS 22.030 [19]

<status>: integer type, value

0 deactivated

1 activated

Implementation

Mandatory for a ME supporting AT commands only and supporting VGCS.

11.3.2 VBS subscriptions and GId status +CBCS

Table Ref.@: +CBCS action command syntax

Command	Possible response(s)
+CBCS=<GId>,<status>	*+CME ERROR: <err>*
+CBCS?	+CBCS: <GId>,<status><CR><LF> [+CBCS: <GId>,<status><CR><LF> [...]] *+CME ERROR: <err>*
+CBCS=?	+CB~~G~~CS: (list of supported <GId>s), (list of supported <status>s)

Description

This command works with SIM Card and when the GSM Application is selected in UICC. Function with USIM is for further study. The set command is used to edit the status of the GId EF_{VBSS} on the SIM. The read command returns all subscribed GIds in EF_{VBS} and their status in EF_{VBSS} from the SIM.

Defined values

<GId> integer type, group Id as specified in 3G TS 22.030 [19]

<status>: integer type, value

0	deactivated
1	activated

Implementation

Mandatory for a ME supporting AT commands only and supporting VBS.

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Document ***T2-000550***

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

3G 27.007	**CR**	**047**	Current Version:	3.5.0

↑ *CR number as allocated by MCC support team*

For submission to: T#9 *list expected approval meeting # here ↑*

for approval [X] For information [ ]

Strategic [ ] non-strategic [ ] *(for SMG use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [ ]

Source: T2 **Date:** 31-08-2000

Subject: Extension of dial command for VBS and VGCS

Work item: ASCI

Category: *(only one category shall be marked with an X)*

F	Correction	[ ]
A	Corresponds to a correction in an earlier release	[ ]
B	Addition of feature	[X]
C	Functional modification of feature	[ ]
D	Editorial modification	[ ]

Release:

Phase 2	[ ]
Release 96	[ ]
Release 97	[ ]
Release 98	[ ]
Release 99	[ ]
Release 00	[X]

Reason for change: To align the result of the dialling command on the point to point service and on the GPRS service.

Clauses affected: 11.2.1 and 6.10

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

11.2.1 Request VGCS or VBS service 'D'

Table 1: D command syntax

Command	Possible Response(s)
D*<SC$_1$>[*<SC$_2$>]#<GId>;	*+CME ERROR: <err>*

Description

This Dial command extension is a service request application according to 3G TS 22.030 [19]. No further commands may follow on the AT command line.

Responses

When the call has terminated, either as a result of an orderly termination or an error, the ME shall return the NO CARRIER final result code.

Possible error responses include +CME ERROR: <err> when error is related to ME functionality. The requested service, GId and priority level are checked against the subscriptions of the user and the status of the GId stored on the SIM. In case if no subscription is available for this service, GId or priority level or the GId is deactivated an ERROR or +CMEE ERROR result code is returned. See +CMEE ERROR extensions for VGCS, VBS and eMLPP in sub-clause 9.2

Detailed error report of an unsuccessful originated call can be obtained with command Extended Error Report +CEER (if implemented).

NOTE. The dial string conforms to the syntax specified in 3G TS 22.030 [19].

Defined Values

<SC$_1$>: Service Code is a digit string which identifies a request to use
value 17 Voice Group Call Service
value 18 Voice Broadcast Service

<SC$_2$>: Service Code is a digit string which identifies a request to use eMLPP priority . Service Code values for different priority levels are specified in 3G TS 22.030 [19]

<GId>: a digit string that specifies the group identification of a called party.

Implementation

Mandatory for a ME supporting AT commands only and VGCS or VBS is implemented.

3GPP TSG T WG2 #10
Galway, Ireland
28 August - 1 September 2000

***Document* T2-000551**

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

3G 27.007	**CR**	048	Current Version:	3.5.0

↑ *CR number as allocated by MCC support team*

For submission to: T#9 *list expected approval meeting # here* ↑

for approval [X]
For information [ ]

Strategic [ ]
non-strategic [ ]
(for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*
(U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [ ]

Source: T2 **Date:** 31-08-2000

Subject: Introduction of a new AT command +COTDI to manage Originator-to-dispatcher information element

Work item: ASCI

Category: *(only one category shall be marked with an X)*

F	Correction	[ ]
A	Corresponds to a correction in an earlier release	[ ]
B	Addition of feature	[X]
C	Functional modification of feature	[ ]
D	Editorial modification	[ ]

Release:

Phase 2	[ ]
Release 96	[ ]
Release 97	[ ]
Release 98	[ ]
Release 99	[ ]
Release 00	[X]

Reason for change: There is no way foreseen to configure the Originator-to-dispatcher information IE to send in an GC or BC Setup or Immediate Setup 2 message by AT commands.

Clauses affected: New sub-clause

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

NEW Sub-Clause in section 11.1.x

Originator to Dispatcher Information +COTDI

+COTDI action command syntax

Command	Possible response(s)
+ COTDI =<message>[,<OTDIE>[,<message>[,<OTDIE>]]]	*+CME ERROR: <err>*
+ COTDI?	[+ COTDI: <message>,<OTDIE>[,<message>,<OTDIE>]]
+ COTDI=?	+ COTDI: (list of supported <message>s)

Description

This command allows control of the Originator-to-Dispatcher Information and Compressed Originator-to-Dispatcher Information according to GSM 04.68[52] and GSM 04.69[53].

When <message> and <OTDIE> are both present the string specified in <OTDIE> is included in the corresponding group or broadcast control <message> as the value part of the Originator-to-Dispatcher Information Element or Compressed Originator-to-Dispatcher Information Element (as defined in GSM 04.68[52] and GSM 04.69[53]) into all subsequent messages of type <message>. If parameter <message> is present but parameter <OTDIE> is not present then the Originator-to-Dispatcher Information Element shall not be present in sub-sequent messages of type <message>.

The read command returns the content of <message> and of <OTDIE>. If no <OTDIE> is available, no information text shall be returned.

Test command returns values supported by the TA as a compound value.

Defined values

<message>

~~1~~ 0 SETUP message containing the outgoing Originator-to-Dispatcher Information Element

~~2~~1 IMMEDIATE SETUP 2 message containing the outgoing Compressed Originator-to-Dispatcher Information Element

< OTDIE>: the Originator-to-Dispatcher Information Element or Compressed Originator-to-Dispatcher Information Element (as defined in GSM 04.68 [52] and GSM 04.69 [53]) in hexadecimal character format (for hexadecimal format, refer +CSCS).

Implementation

Optional.