3GPP TSG-T #5
Kyongju, KOREA, 7-8 October 1999

TSGT2#6(99)176

Agenda Item:

Source: T2

Title: 2G Change Requests

Document for: Approval

TDOCC	SPEC	CR	R	PH	SUBJECT	CAT	VERS	NEW_V
T299762	03.40	A08		R98	Change to reserved port number range for SMS	C	7.2.0	7.3.0
T299820	07.07	A08		R97	AT command - Request GPRS service 'D'	F	6.3.0	6.4.0
T299821	07.07	A08		R98	AT command - Request GPRS service 'D'	A	7.3.0	7.4.0
T299662	07.10	A02		R97	Clarification of CR bit	F	6.3.0	6.4.0
T299663	07.10	A02		R98	Clarification of CR bit	A	7.0.0	7.1.0
T299665	07.10	A02		R97	Correction of the bits in the start and close flags	F	6.3.0	6.4.0
T299666	07.10	A02		R98	Correction of the bits in the start and close flags	A	7.0.0	7.1.0
T299668	07.10	A02		R97	Correction of value octets in RPN command	F	6.3.0	6.4.0

ETSI SMG4/ 3GPP T2
Helsinki
6-9 September 1999

T2-99662

CHANGE REQUEST No :	**A020**	*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*			
Technical Specification GSM	07.10	Version:	6.3.0		
Submitted to	T#5/SMG#30	for approval	**X**	without presentation ("non-strategic")	**X**
list SMG plenary meeting no. here ↑		for information		with presentation ("strategic")	

PT SMG CR cover form is available from: http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip

Proposed change affects: SIM [ ] ME [X] Network [X]
(at least one should be marked with an X)

Work item: TEI

Source: T2 **Date:** 27/08/1999

Subject: Clarification of CR bit

Category: *(one category and one release only 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	**X**
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	

Reason for change:
When control messages are sent on channel 0 there are two fields which contains a CR bit:
1. CR bit on field "Address"
2. CR bit on field "type".

The use of the CR bit is different for both fields, and the document does not specify such difference. This can lead to a misunderstanding.

Clauses affected: 5.4.6.2 Operating procedures

Other specs affected:

Other releases of same spec		→	List of CRs:
Other core specifications		→	List of CRs:
MS test specifications / TBRs		→	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.

5.4.6.2 Operating procedures

Messages always exist in pairs; a command message and a corresponding response message. If the C/R bit is set to 1 the message is a command, if it is set to 0 the message is a response. A response message has the same T bits as the command that provoked it.

If a command does not produce a response within a time T2 the command may be sent again up to N2 times. If no response is received on the N2 transmissions, the multiplexer control channel should be considered faulty and an alarm raised. Resolution of the error situation is implementation dependent.

Note: Notice that when UIH frames are used to convey information on DLCI 0 there are at least two different fields that contain a CR bit, and the bits are set of different form. The CR bit in the Type field shall be set as it is stated above, while the CR bit in the Address field (see subclause 5.2.1.2) shall be set as it is described in subclause 5.4.3.1.

5.4.6.3 Message Type and Actions

5.4.6.3.1 DLC parameter negotiation (PN)

This procedure is optional. If this command is not supported, default values are applied to each DLC.

Before a DLC is set up using the mechanism in subclause 5.4.1, the TE and MS must agree on the parameters to be used for that DLC. These parameters are determined by parameter negotiation.

The parameter negotiation uses the following type field octet:

Bit	1	2	3	4	5	6	7	8
	EA	C/R	0	0	0	0	0	1

The length field octet contains the value 8 and there follow eight value octets. The value octets contain the information in Table 1.

Table 1: Parameter Negotiation

Value Octet	Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Bit 6	Bit 7	Bit 8
1	D1	D2	D3	D4	D5	D6	0	0
2	I1	I2	I3	I4	CL1	CL2	CL3	CL4
3	P1	P2	P3	P4	P5	P6	0	0
4	T1	T2	T3	T4	T5	T6	T7	T8
5	N1	N2	N3	N4	N5	N6	N7	N8
6	N9	N10	N11	N12	N13	N14	N15	N16
7	NA1	NA2	NA3	NA4	NA5	NA6	NA7	NA8
8	K1	K2	K3	0	0	0	0	0

The various fields are coded as follows:

The D-bits define the DLCI that the other information refers to; Bit D1 is the least significant.

The I-bits define the type of frames used for carrying information in the particular DLC - See Table 2.

Table 2: Meaning of I-bits

Meaning	I1	I2	I3	I4
Use UIH frames	0	0	0	0
Use UI frames	1	0	0	0
Use I frames (note)	0	1	0	0

ETSI SMG4/3GPP T2
Helsinki
6-9 September 1999

T2-99663

CHANGE REQUEST No :	**A021**	*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*			
Technical Specification GSM	07.10	Version:	7.0.0		
Submitted to	TSG#5/SMG#30	for approval	**X**	without presentation ("non-strategic")	**X**
list SMG plenary meeting no. here ↑		for information		with presentation ("strategic")	

PT SMG CR cover form is available from: http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip

Proposed change affects: SIM [ ] ME [X] Network [X]
(at least one should be marked with an X)

Work item: TEI

Source: T2 **Date:** 27/08/1999

Subject: Clarification of CR bit

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

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

Reason for change:
When control messages are sent on channel 0 there are two fields which contains a CR bit:
1. CR bit on field "Address"
2. CR bit on field "type".

The use of the CR bit is different for both fields, and the document does not specify such difference. This can lead to a misunderstanding.

Clauses affected: 5.4.6.2 Operating procedures

Other specs affected:

Other releases of same spec		→ List of CRs:
Other core specifications		→ List of CRs:
MS test specifications / TBRs		→ 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.

5.4.6.2 Operating procedures

Messages always exist in pairs; a command message and a corresponding response message. If the C/R bit is set to 1 the message is a command, if it is set to 0 the message is a response. A response message has the same T bits as the command that provoked it.

If a command does not produce a response within a time T2 the command may be sent again up to N2 times. If no response is received on the N2 transmissions, the multiplexer control channel should be considered faulty and an alarm raised. Resolution of the error situation is implementation dependent.

Note: Notice that when UIH frames are used to convey information on DLCI 0 there are at least two different fields that contain a CR bit, and the bits are set of different form. The CR bit in the Type field shall be set as it is stated above, while the CR bit in the Address field (see subclause 5.2.1.2) shall be set as it is described in subclause 5.4.3.1.

5.4.6.3 Message Type and Actions

5.4.6.3.1 DLC parameter negotiation (PN)

This procedure is optional. If this command is not supported, default values are applied to each DLC.

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3	P1	P2	P3	P4	P5	P6	0	0
4	T1	T2	T3	T4	T5	T6	T7	T8
5	N1	N2	N3	N4	N5	N6	N7	N8
6	N9	N10	N11	N12	N13	N14	N15	N16
7	NA1	NA2	NA3	NA4	NA5	NA6	NA7	NA8
8	K1	K2	K3	0	0	0	0	0

The various fields are coded as follows:

The D-bits define the DLCI that the other information refers to; Bit D1 is the least significant.

The I-bits define the type of frames used for carrying information in the particular DLC - See Table 2.

Table 2: Meaning of I-bits

Meaning	I1	I2	I3	I4
Use UIH frames	0	0	0	0
Use UI frames	1	0	0	0
Use I frames (note)	0	1	0	0

ETSI SMG4/3GPP T2
Helsinki
6-9 September 1999

T2-99665

CHANGE REQUEST No :	**A022**	*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*			
Technical Specification GSM	07.10	Version:	6.3.0		
Submitted to T#5,SMG#30 *list SMG plenary meeting no. here ↑*	for approval	X	without presentation ("non-strategic")	X	
	for information		with presentation ("strategic")		

PT SMG CR cover form is available from: http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip

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

Work item: TEI

Source: T2 **Date:** 27/08/1999

Subject: Correction of the bits in the start and close flags of the frame in the example on Annex B

Category: *(one category and one release only 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	X
C	Functional modification of feature		Release 98	
D	Editorial modification		Release 99	

Reason for change: There are several bits that are wrong.

Clauses affected:
Annex B
B.1 Example (new)

B.2 Reflected bits (new)

Other specs affected:

Other releases of same spec	X	→ List of CRs:	
Other core specifications	X	→ List of CRs:	
MS test specifications / TBRs		→ 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.

Annex B (informative): Explanatory notes on the CRC Calculation

R(p)= remainder of p.

Message is k bits long.

$$FCS = OnesComplement\left(R\left(\frac{(x^7 + x^6 + x^5 + x^4 + x^3 + x^2 + x^1 + 1)x^k}{x^8 + x^2 + x^1 + 1} \right) \oplus R\left(\frac{(message)x^8}{x^8 + x^2 + x^1 + 1} \right) \right)$$

B.1 Example

A SABM frame on DLCI 1. Note that bits are written as they are sent on the serial port, LSB bit first and MSB bit last. No start stop bits, transparency bytes, BOFC or EOFC are included in the message. (The length octet is only included in the FCS for UI frames).

BOFC	DLC	Ctrl	FCS	EOFC
10011111~~1~~	11100000	11111100	To be calculated	10011111

k=8*2=16

message=111~~0~~00000 11111100

$$FCS = OnesComplement(R(\frac{11111111'00000000'00000000}{100000111})$$
$$\oplus R(\frac{11100000'11111100'00000000}{100000111})) =$$
$$OnesComplement(11010111 \oplus 10111001) = OnesComplement(01101110) = 10010001$$

B.2 Reflected bits

In the example the bits where shown as they was sent on the serial line, this is however not they way the application sees the octets, it will see MSB first and LSB last, so before calculating the FCS the octets bit order must be reversed.

BOFC	DLC	Ctrl	FCS	EOFC
0xF9	0x07	0x3F		0xF9
~~0~~11111001	00000111	00111111	To be calculated	~~0~~11111001

1 Reverse all bit in octets

2 Calculate FCS

3 Reverse all bits in FCS

4 Send the reversed FCS

Fortunately there is an easier way of doing the reversing of the bits, when implementing the CRC calculation using table lookup the table can be reversed.

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Helsinki
6-9 September 1999

T2-99666

CHANGE REQUEST No :	**A023**	*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*			
Technical Specification GSM	07.10	Version:	7.0.0		
Submitted to	T#5, SMG#30	for approval	X	without presentation ("non-strategic")	X
list SMG plenary meeting no. here ↑		for information		with presentation ("strategic")	

PT SMG CR cover form is available from: http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip

Proposed change affects: SIM [ ] ME [X] Network [X]
(at least one should be marked with an X)

Work item: TEI

Source: T2 **Date:** 27/08/1999

Subject: Correction of the bits in the start and close flags of the frame in the example on Annex B

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

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

Reason for change: There are several bits that are wrong.

Clauses affected:
Annex B
B.1 Example (new)

B.2 Reflected bits (new)

Other specs affected:

Other releases of same spec		→ List of CRs:
Other core specifications		→ List of CRs:
MS test specifications / TBRs		→ 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.

B.1 Example

A SABM frame on DLCI 1. Note that bits are written as they are sent on the serial port, LSB bit first and MSB bit last. No start stop bits, transparency bytes, BOFC or EOFC are included in the message. (The length octet is only included in the FCS for UI frames).

BOFC	DLC	Ctrl	FCS	EOFC
10011111~~1~~	11100000	11111100	To be calculated	10011111

k=8*2=16

message=111~~0~~00000 11111100

$$FCS = OnesComplement(R(\frac{11111111'00000000'00000000}{100000111}) \oplus R(\frac{11100000'11111100'00000000}{100000111})) =$$
$$OnesComplement(11010111 \oplus 10111001) = OnesComplement(01101110) = 10010001$$

B.2 Reflected bits

In the example the bits where shown as they was sent on the serial line, this is however not they way the application sees the octets, it will see MSB first and LSB last, so before calculating the FCS the octets bit order must be reversed.

BOFC	DLC	Ctrl	FCS	EOFC
0xF9	0x07	0x3F		0xF9
~~0~~11111001	00000111	00111111	To be calculated	~~0~~11111001

1 Reverse all bit in octets

2 Calculate FCS

3 Reverse all bits in FCS

4 Send the reversed FCS

Fortunately there is an easier way of doing the reversing of the bits, when implementing the CRC calculation using table lookup the table can be reversed.

B.3 Implementation

Implementation is very simple because the FCS will be as wide as the lookup table (8 bits). To avoid having to reverse all bits in the octets all the octets in the crc table is reversed instead.

The term $R(\frac{(x^7 + x^6 + x^5 + x^4 + x^3 + x^2 + x^1 + 1)x^k}{x^8 + x^2 + x^1 + 1})$ corresponds to initialising the FCS with 0xFF.

B.3.1 Calculate FCS for the example given earlier

First initiliaze the crc: FCS=0xFF
Add first byte: FCS=table[0xFF^0x07]=table[0xF8]=0xBA

ETSI SMG4/T2
Helsinki
6-9 September 1999

T2-99668

CHANGE REQUEST No :	**A024**	*Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*			
Technical Specification GSM	07.10	Version:	6.3.0		
Submitted to	T#5, SMG#30	for approval	**X**	without presentation ("non-strategic")	**X**
list SMG plenary meeting no. here ↑		for information		with presentation ("strategic")	

PT SMG CR cover form is available from: http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip

Proposed change affects: SIM [ ] ME [X] Network [X]
(at least one should be marked with an X)

Work item: TEI

Source: T2 **Date:** 27/08/1999

Subject: Correction of value octets in RPN command

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

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

Release:

Phase 2	
Release 96	
Release 97	X
Release 98	
Release 99	

Reason for change:

The "Value octet1" in the picture of the RPN frame is redundant (should not be there), since the DLCI is the first value octet.
The frame RPN has 8 value octets. The first value octet (value octet1) is the DLCI and after DLCI, it comes value octet2, value octet3… and so on. In the picture on page 31, section 5.4.6.3.9 the frame has 9 value octets, the DLCI and 8 more. DLCI and value octet1 are refered to the same octet, so one of them is redundant. There are two options

1. If the DLCI octet remains on the picture, then value octet 1 should be removed from it.
2. If value octet1 remains on the picture, then DLCI octet should be removed from it.

My suggestion is that in order to be consistent with the tables 10 and 11, option 1 mentioned above is more suitable.

Clauses affected: 5.4.6.3.9

Other specs affected:

Other releases of same spec	[ ]	→ List of CRs:
Other core specifications	[ ]	→ List of CRs:
MS test specifications / TBRs	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

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

5.4.6.3.9 Remote Port Negotiation Command (RPN)

This command is optional.

This command is used for set the remote port communication settings.

All devices must assure that the communication settings are correctly set, prior sending data. There are default values assigned on all parameters, if no negotiation is performed, the default value is chosen.

During a connection, a device must send the RPN whenever the communication settings are changed. The same applies for the Port Line Status.

Command RPN	Length 1 or 8	DLCI	~~Value octet1 optional~~	Value octet2 optional	Value octet3 optional	Value octet4 optional	Value octet5 optional	Value octet6 optional	Value octet7 optional	Value octet8 optional

The Remote Port Negotiation Command use the following type field octet:

Table 1: Type field octet

Bit	1	2	3	4	5	6	7	8
	EA	C/R	0	0	1	0	0	1

The length byte contains the value 1 or 8 and there are one or eight value octets.

Table 2: DLCI octet

Bit No.	1	2	3	4	5	6	7	8
	EA	1	D		L	C	I	

Bit 2 in the DLCI octet is not used and always set to 1, the EA bit is according to the description in subclause 5.2.1.2. The DLCI field indicated which DLC the command is applied to.

Table 3: Port Value Octets

Value Octet	Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Bit 6	Bit 7	Bit 8
2	B1	B2	B3	B4	B5	B6	B7	B8
3	D1	D2	S	P	PT1	PT2	res	res
4	FLC1	FLC2	FLC3	FLC4	FLC5	FLC6	res	res
5	XON1	XON2	XON3	XON4	XON5	XON6	XON7	XON8
6	XOF1	XOF2	XOF3	XOF4	XOF5	XOF6	XOF7	XOF8
7	PM1	PM2	PM3	PM4	PM5	PM6	PM7	PM8
8	PM9	PM10	PM11	PM12	PM13	PM14	PM15	PM16

A device transmits a remote port negotiation command to the other device with the fields set to the desired values with the parameter mask indicating which parameters are set..

When the remote port negotiation command is received, the responding station replies according to the following rules:

The DLCI value may not be changed.

The receiver may accept the Port Value Octet bits proposed by the sender, and reply with a respons with the parameter mask set to 1 for all the parameters accepted. If the receiver does not support any of the proposed values, it

replies with the parameter mask set to zero for the parameters not supported. For those parameters with the parameters mask set to 1,

3GPP TSG-T2 #5 / ETSI SMG4
September 1999
Helsinki, Finland

TSGT2#5(99) 762

CHANGE REQUEST No : **A088** *Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*

Technical Specification GSM / UMTS: 03.40 Version 7.2.0

Submitted to T#5, SMG#30 *list plenary meeting or STC here ↑* for approval **X** for information without presentation ("non-strategic") **X** with presentation ("strategic")

PT SMG CR cover form. Filename: crf26_3.doc

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

Work item: TEI

Source: T2 **Date:** 9 Sept 1999

Subject: Change to reserved port number range for SMS

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

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

Release:

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

Reason for change: This proposed change enhances the usefulness of the SMS port numbering scheme, by allowing applications to communicate using an agreed protocol identified by the port number. This extends the capability to communicate from being specific to the TE, to within the ME. Applications that propose to use this mechanism include WAP.
The Internet Assigned Numbers Authority (IANA) provides a central coordinating function for port numbers, as has been recognised by WAP registering port numbers with it.

Clauses affected: 9.2.3.24.4

Other specs affected:

Other releases of same spec	[ ]	→ List of CRs:
Other core specifications	[ ]	→ List of CRs:
MS test specifications / TBRs	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

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

9.2.3.24.4 Application Port Addressing 16 bit address

This facility allows short messages to be routed to one of multiple applications in the TE (terminal equipment), using a method similar to TCP/UDP ports in a TCP/IP network. An application entity is uniquely identified by the pair of TP-DA/TP-OA and the port address. The port addressing is transparent to the transport, and also useful in Status Reports. The total length of the IE is 4 octets

octet 1,2 Destination port

These octets contain a number indicating the receiving port, i.e. application, in the receiving device.

octet 3,4 Originator port

These octets contain a number indicating the sending port, i.e. application, in the sending device.

The port range is up to 65535 using 16 bit addressing space. The Integer value of the port number is presented as in GSM 03.40 subclause 9.1.2.1.

VALUE (port number)	MEANING
~~0- 15999~~	~~Reserved~~
0 - 15999	As allocated by IANA (http://www.IANA.com/)
16000 - 16999	Available for allocation by applications
17000 - 65535	Reserved

A receiving entity shall ignore (i.e. skip over and commence processing at the next information element) any information element where the value of the Information-Element-Data is Reserved or not supported.

CHANGE REQUEST No : **A082** *Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*

Technical Specification GSM / UMTS: 07.07 Version 6.3.0

Submitted to TSG T#5 *list plenary meeting or STC here ↑*

for approval **X**
for information

without presentation ("non-strategic")
with presentation ("strategic")

PT SMG CR cover form. Filename: crf26_3.doc

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

Work item: GPRS

Source: T2 **Date:** 3/6/99

Subject: AT command - Request GPRS service 'D'

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

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

Release:

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

Reason for change: Editorial clarification and correction to 07.07 release '97 for the 'D' modem compatibility command. This change was requested by implementers and clarifies the use of the ATD command for GPRS.

Clauses affected: 10.2.1.1

Other specs affected:

Other releases of same spec		→ List of CRs:
Other core specifications		→ List of CRs:
MS test specifications / TBRs		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments: This CR format relies on the current split of AT commands out of 07.60 into 07.07having taken place.

help.doc

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

10.2.1.1 Request GPRS service 'D'

Table 14: D command syntax

Command	Possible Response(s)
D*<GPRS_SC>[*[<called_address>] [*[<L2P>][*[<cid>]]]]#	CONNECT ERROR

Description

This command causes the MT to perform whatever actions are necessary to establish communication between the TE and the external PDN.

The V.250 'D' (Dial) command causes the MT to enter the V.250 online data state and, with the TE, to start the specified layer 2 protocol. The MT shall return CONNECT to confirm acceptance of the command prior to entering the V.250 online data state. No further commands may follow on the AT command line.

The detailed behaviour after the online data state has been entered is dependent on the PDP type. It is described briefly in clauses 8 (for X.25) and 9 (for IP) of GSM 07.60. GPRS attachment and PDP context activation procedures may take place prior to or during the PDP startup if they have not already been performed using the +CGATT and +CGACT commands.

When the layer 2 protocol has terminated, either as a result of an orderly shut down of the PDP or an error, the MT shall enter V.250 command state and return the NO CARRIER final result code.

If <called address> is supported and provided, the MT shall automatically set up a virtual call to the specified address after the PDP context has been activated.

If <L2P> and <cid> are supported, their usage shall be the same as in the +CGD~~CONT~~ATA command. The +CGDCONT, +CGQREQ, etc. commands may then be used in the modem initialisation AT command string to set values for APN, QoS etc..

If <L2P> is not supported or is supported but omitted, the MT shall use a layer 2 protocol appropriate to the PDP type.

If <cid> is not supported or is supported but omitted, the MT shall attempt to activate the context using:

(a) any information provided by the TE during the PDP startup procedure, e.g. the TE may provide a PDP type and/or PDP address to the MT,

or, (b) a priori knowledge, e.g. the MT may implement only one PDP type,

or, (c) using the 'Empty PDP type' (GSM 04.08). (No PDP address or APN shall be sent in this case and only one PDP context subscription record shall be present in the HLR for this subscriber.)

This command may be used in both normal and modem compatibility modes.

NOTE. The dial string conforms to the syntax specified in GSM 02.30.

Defined Values

<GPRS_SC>: (GPRS Service Code) a digit string (value 99) which identifies a request to use the GPRS

<called_address>: a digit string (see note) that specifies the address of a called party in the address space applicable to the PDP.

<L2P>: a digit string (see note) which indicates the layer 2 protocol to be used (see +CGDATA command).
Numeric equivalents to the alphanumeric values used by +CGDATA are:
1 PPP
2 PAD
3 X25
9yyyy M-xxxx
Other values are reserved and will result in an ERROR response to the set command.

NOTE. V.250 (and certain communications software) does not permit arbitrary characters in the dial string. The <L2P> and <called_address> strings are therefore specified as containing digits (0-9) only.

<cid>: a digit string which specifies a particular PDP context definition (see +CGDCONT command).

~~NOTE. The dial string conforms to the syntax specified in GSM 02.30.~~

Implementation

Optional if the +CGDATA command is supported. If the D command is provided, then support for <called_address>, <L2P> and <cid> are optional. If they are not supported but values are provided by the TE, the values shall be ignored and this shall not constitute an error.

~~NOTE. V.250 (and certain communications software) does not permit arbitrary characters in the dial string. The <L2P> and <called_address> strings are therefore specified as containing digits (0-9) only.~~

3GPP TSG-T2 #6
Kyongju, KOREA, 4-6 October 1999

3GPP TSG CN3
Akibo, Japan
14th –18th June 1999

Tdoc N3-99136

CHANGE REQUEST No : **A083**

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

Technical Specification GSM / UMTS: 07.07 Version 7.3.0

Submitted to TSG #5 *list plenary meeting or STC here ↑*

for approval **X**
for information

Without presentation ("non-strategic")
With presentation ("strategic")

PT SMG CR cover form. Filename: crf26_3.doc

Proposed change affects: SIM [ ] ME [X] Network [ ]
(at least one should be marked with an X)

Work item: GPRS

Source: T2 **Date:** 3/6/99

Subject: AT command - Request GPRS service 'D'

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

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

Release:

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

Reason for change: Editorial clarification and correction to 07.07 for the 'D' modem compatibility command. This change was requested by implementers and clarifies the use of the ATD command for GPRS.

Clauses affected: 10.2.1.1

Other specs affected:

Other releases of same spec		→ List of CRs:
Other core specifications		→ List of CRs:
MS test specifications / TBRs		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments: This CR format relies on the current split of AT commands out of 07.60 into 07.07having taken place.

help.doc

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

3GPP TSG CN3
Akibo, Japan
14th –18th June 1999

Tdoc N3-99136

10.2.1.1 Request GPRS service 'D'

Table 14: D command syntax

Command	Possible Response(s)
D*<GPRS_SC>[*[<called_address>] [*[<L2P>][*[<cid>]]]]#	CONNECT ERROR

Description

This command causes the MT to perform whatever actions are necessary to establish communication between the TE and the external PDN.

The V.250 'D' (Dial) command causes the MT to enter the V.250 online data state and, with the TE, to start the specified layer 2 protocol. The MT shall return CONNECT to confirm acceptance of the command prior to entering the V.250 online data state. No further commands may follow on the AT command line.

The detailed behaviour after the online data state has been entered is dependent on the PDP type. It is described briefly in clauses 8 (for X.25) and 9 (for IP) of GSM 07.60. GPRS attachment and PDP context activation procedures may take place prior to or during the PDP startup if they have not already been performed using the +CGATT and +CGACT commands.

When the layer 2 protocol has terminated, either as a result of an orderly shut down of the PDP or an error, the MT shall enter V.250 command state and return the NO CARRIER final result code.

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If <L2P> and <cid> are supported, their usage shall be the same as in the +CGD~~CONT~~ATA command. The +CGDCONT, +CGQREQ, etc. commands may then be used in the modem initialisation AT command string to set values for APN, QoS etc..

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This command may be used in both normal and modem compatibility modes.

NOTE. The dial string conforms to the syntax specified in GSM 02.30.

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<called_address>: a digit string (see note) that specifies the address of a called party in the address space applicable to the PDP.

<L2P>: a digit string (see note) which indicates the layer 2 protocol to be used (see +CGDATA command). Numeric equivalents to the alphanumeric values used by +CGDATA are:

1 PPP
2 PAD
3 X25
9yyyy M-xxxx
Other values are reserved and will result in an ERROR response to the set command.

NOTE. V.250 (and certain communications software) does not permit arbitrary characters in the dial string. The <L2P> and <called_address> strings are therefore specified as containing digits (0-9) only.

<cid>: a digit string which specifies a particular PDP context definition (see +CGDCONT command).

~~NOTE. The dial string conforms to the syntax specified in GSM 02.30.~~

Implementation

Optional if the +CGDATA command is supported. If the D command is provided, then support for <called_address>, <L2P> and <cid> are optional. If they are not supported but values are provided by the TE, the values shall be ignored and this shall not constitute an error.

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3GPP TSG-T#5
Kyongju, KOREA, 7-8 October 1999

TSGT#5(99)173

Source: **T2 Secretary**

Title: **TSG-T2 Progress Report**

Agenda item: **7.1**

Document for: **Information**

Progress Report

TSG-T2 "Mobile Terminal Services and Capabilities”

---

1. Progress Report

TSG-T2 had two meetings since T#4. T2#5 was held 6-9 September 1999 in Helsinki hosted by Sonera. T2#6 was held 4-6 October 1999 in Kyongju hosted by TTA. Both meetings were held jointly with SMG4.

In addition, SWG1 "Execution Environment" had two additional meetings held 15-16 July in Tampere, hosted by Nokia and 11-13 August 1999 in Newbury, hosted by Vodafone. SWG5 "Multisystem Terminals" had an additional meeting on 28-30 July 1999 in Malmoe, hosted by Telia.

The work was progressed according to the T2 work program to which some changes are proposed at this TSG-T meeting. Eight 2G and sixteen 3G change requests are presented to TSG-T for approval. Three specifications are presented to TSG-T for information, five for approval. Please find below a short summary of the results for each sub working group:

SWG1 Execution Environment (Chairman: Mark Cataldo, Motorola) has the responsibility for developing and maintaining specifications for a terminal execution environment using wireless, fixed, and cordless access.

After the approval of MExE R99 stage 1 at SMG#29, the group commenced to incorporate the R99 requirements into MExE R99 stage 2 3G TS 23.057. The R99 requirements are: SIM MExE certificate management, security clarifications, QoS aspects. It is expected that MExE R99 stage 2 will be available for completion in 1999.

SWG2 Terminal Interfaces (Chairman: Lars Novak, Ericsson) is responsible for the development of specifications relating to external interfaces to terminals, synchronisation issues and for the development of AT commands.

The conclusion on the discussion regarding the physical connector of the terminal can be found in 3G TR 27.901 v1.0.0 Report on Terminal Interfaces which is presented to TSG-T for information. It is concluded that 3GPP should not produce any technical specifications for terminal interfaces other than the radio interface and the USIM interface. The SDOs can develop their own optional physical connector specification based on their market requirements.

On the topic synchronisation and object exchange substantial progress has been made. 3G TR 27.903 "Discussion of Synchronisation Standards" and 3G TS 27.103 "Wide Area Network Synchronisation" are presented for approval to TSG-T.

Several change request for inclusion of new AT commands into 3G TS 27.007 are presented to TSG-T.

No contributions were received on the work item "Alternatives to AT commands".

SWG3 Messaging (Chairman: Arthur Gidlow, One2One) has the responsibility for defining UMTS-specific messaging applications to allow non-real time multimedia messaging, a Short Message Service, and Cell Broadcast Services.

After the resign of SWG3 chairman Arthur Gidlow (One2One), Ian Harris (Vodafone) was appointed as the new SWG3 chairman.

S1 agreed to send the stage 1 for the Multimedia Messaging Service (MMS) 3G TS 22.140 which was created by T2 for information to TSG-SA. T2 commenced the work on the MMS stage 2. The group is making significant efforts to finalise this document within 1999. However, there is a risk that this schedule can not be met. A T2 SWG3 MMS stage 2 ad hoc meeting is planned on 9th and 10th November 1999.

3G TS 23.041 Technical realization of Cell Broadcast Service (CBS) is presented for approval to TSG-T.

So far, there was only little input regarding an enhanced cell broadcast service. This work item will not be completed in 1999.

SWG4 Services End to End Interworking (no chairman) has the responsibility for the review of end to end services.

SWG4 has currently no activity. It will meet on an ad hoc basis as the need arises.

SWG5 Multi-system Terminals (Chairman: Sofi Persson, Telia) will consider other systems and their multi-mode coexistence with UMTS from a terminal and service point of view.

The SWG's name and the TR title was changed from multimode to multisystem terminals/issues. SWG5 is collecting and referring to work already done on multi-mode terminals and from that identify issues that need additional treatment to make usage of multi-mode terminals efficient. 3G TR 21.910 Report on multi-system issues is presented for information to TSG-T. Comments from other groups are invited. SA should be informed on described interactions with PLMN selection. It is planned to held a 3GPP workshop on multisystem issues.

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3G TR 34.907 v2.0.0 Report on electrical safety requirements and regulations is presented to TSG-T for approval.

3G TR 21.904 v1.0.0 Terminal Capability Requirements is presented for information. A mechanism for maintaining the Terminal Capabilities Report is proposed to TSG-T for endorsement and forwarding to all working groups.

Issues on definitions used for the Mobile Station/Terminal, and on terminology and vocabulary in 3GPP are raised to TSG-T (TP-99197 and TP-99198) to find a proper way forward.

2. Electronic Working

T2 is continuing to have electronic meetings. At the last four meetings no paper copies were made.

3. TSG-T2 Meeting Calendar

Meeting	Date	Location	Host
T2 SWG3 MMS ad hoc	9-10 Nov 1999	UK	Motorola
T2#7/SMG4	22-26 Nov 1999	Ystad, Sweden	Ericsson
T#6	13-15 Dec 1999	Sophia, Antipolis, France	ETSI
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T2#8/SMG4	24-28 Jan 2000	US	T1P1
T#7	13-15 March 2000	Madrid, Spain	
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T2#10/SMG4	28 Aug - 01 Sep 2000	Ireland	Logica
T#9	25-27 Sept 2000		
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4. List of Tdocs submitted to TSG-T#5

Tdoc	Agenda item	Title	Source
TP-99173	7.1	T2 Progress Report	T2 secretary
TP-99174	7.1	T2 Progress Report (slides)	T2 chairman
TP-99175	7.4	T2 work program (status after T2#5 Helsinki and T2#6 Kyongju)	MCC
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3GPP TSG-T#5
Kyongju, KOREA, 7-8 October 1999

TSGT#5(99)173

Source: **T2 Secretary**

Title: **TSG-T2 Progress Report**

Agenda item: **7.1**

Document for: **Information**

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Printed 03/09/199
n:

GPP TSG-T#5
yongju, KOREA, 7-8 October 1999

TSGT#5(99)175

genda Item:

ource: MCC

tle: T2 work program (status after TSG-T2#6)

ocument for: Approval

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e attached T2 work program includes the modifications done at T2#5, Helsinki and T2#6, Kyongju. This modifications will be esented to TSG-T for approval.

Printed 03/09/199
on:

TSI WORK PROGRAM (EWP) **Work Item Reference:** MI/TSGT-02TI_AAT_U

Deliverable MI **Edition:** **Rapporteur:** Novak, Lars
Creation date: 10/03/1999 **Lead Body:** ETSI **Tel:** +46 46 19 35 16 **Fax:** +46 46 19 31 36
Standstill: **Cover date:** **E-mail:** lars.novak@ecs.ericsson.se
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title: 3rd Generation Mobile Telecommunications;
Technical Specification GroupTerminal (TSG-T);
Terminal interfaces (Alternatives to AT commands)

Scope and field of application:
Report on options:

This work item monitors:

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		0.0.0

Keywords
UMTS

Projects
TSG T
UMTS

Mandates

Secretariat Comments
10/03/1999 doig WI reference subject to change.
Estimate schedule only (to be revised)

Printed 03/09/199
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Deliverable MI **Edition:** **Rapporteur:** Novak, Lars
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WT: **Database record last update:** 03/09/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Terminal interfaces (AT commands for 3GPP)

Scope and field of application:
List of AT commands, based on ETSI 07.07. References: ETSI 04.02, 07.07. ARIB Vol.4, Ch.8

This work item monitors:
ETS 27.007

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
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5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		0.0.0

Keywords
TERMINAL
UMTS

Projects
TSG T
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Secretariat Comments
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Estimate schedule only (to be revised)

Printed on: 03/09/199

TSI WORK PROGRAM (EWP) **Work Item Reference:** MI/TSGT-02SMS_ACB_U

Deliverable MI
Creation date: 11/03/1999
Standstill:
Technical body in charge: 3GPP T
WT:
Title:
Technical Specification GroupTerminal (TSG-T);
Short Message Service (SMS) Cell Broadcast (CB); Messaging (Advanced Cell Broadcast); Stage 2/3

Edition:
Lead Body: ETSI
Cover date:

Rapporteur: Holley, Kevin
Tel: +44 1473 605604 **Fax:** +44 20 7519 9028
E-mail: kevin.holley@bt.com
Technical editor: Rodermund, Friedhelm
Database record last update: 03/09/1999

Scope and field of application:
The present document specifies the Advanced CBS stage 2/3.

This work item monitors:
Advanced CBS stage 1 (by SA1)
Advanced CBS stage 2/3 (by T2)

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		0.0.0

Keywords
UMTS

Projects
TSG T
UMTS

Mandates

Secretariat Comments
10/03/1999 doig WI reference subject to change.
Estimate schedule only (to be revised)

Printed 03/09/199
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TSI WORK PROGRAM (EWP) **Work Item Reference:** MI/TSGT-02SMS_U

Deliverable MI **Edition:** **Rapporteur:** Harris, Ian
Creation date: 11/03/1999 **Lead Body:** ETSI **Tel:** +44 1635 673 270 **Fax:** +44 1635 673 258
Standstill: **Cover date:** **E-mail:** ian.harris@vads.vodafone.co.uk
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Messaging (Short Message Service (SMS); Stage 2/3)

Scope and field of application:
Short Message Service (SMS) based on GSM 03.40
References 03.40, 04.11, 03.38, 03.39, 03.47, 03.42

This work item monitors:
TS 23.039
TS 23.040
TS 23.042

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			24/04/1999		24/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		0.0.0

Keywords
TERMINAL
UMTS
SMS

Projects
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Mandates

Secretariat Comments
10/03/1999 doig WI reference subject to change.
Estimate schedule only (to be revised)

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TSI WORK PROGRAM (EWP) **Work Item Reference:** MI/TSGT-02MMS_U

Deliverable MI **Edition:** **Rapporteur:** Schmidt, Gunnar
Creation date: 11/03/1999 **Lead Body:** ETSI **Tel:** +49 5341 28 5853 **Fax:** +49 5341 28 5140
Standstill: **Cover date:** **E-mail:** gunnar.schmidt@fr.bosch.de
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Messaging (Multimedia Messaging Service); Stage 1, 2/3

Scope and field of application:
This work item monitors:
TS 22.140 (responsible WG: S1)
TS 23.140 (responsible WG: T2)

_____
The present document specifies the Multimedia Messaging Service stage 2/3.
Protocols (delivery control)
Control function between Multimedia Messaging Entities Including fragmentation of long messages
Message Formats (Structure of the message)
Fragmenting of messages CSAs part of the Protocols
MS Capabilities negotiation
As part of the Protocols e.g. Memory, Display, ...
Signalling to update capabilities As part of the Protocols Alerting the MMSC (when MS becomes available)
Notification (MMSC >> MS)
Size of message, Content-type, sender, classification of message content
Downloading
Downloading should support different transfer mechanisms
Partial content downloading
Choice of the user and the MS to download parts
Compatibility
To existent store and forward services e.g. SMS
Bearer between the MS and the MMSC
Optimise the bearer between the MS and the MMSC.
Addressing: - As agreed in UMTS
Charging

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		0.0.0

Keywords
TERMINAL
UMTS
MULTIMEDIA

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TSG T
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Secretariat Comments

10/03/1999	doig	WI reference subject to change. Estimate schedule only (to be revised)

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on:

TSI WORK PROGRAM (EWP) **Work Item Reference:** MI/TSGT-02SMS_CB_U

Deliverable MI **Edition:** **Rapporteur:** Harris, Ian
Creation date: 11/03/1999 **Lead Body:** ETSI **Tel:** +44 1635 673 270 **Fax:** +44 1635 673 258
Standstill: **Cover date:** **E-mail:** ian.harris@vads.vodafone.co.uk
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Short Message Service (SMS) Cell Broadcast (CB); Messaging (Cell Broadcast); Stage 2/3

Scope and field of application:
The present document specifies the CBS stage 2/3 based on GSM 03.41.
References 03.41, 04.12, 03.38, 03.49. SA1 will produce Stage 1.

This work item monitors:
TS 23.041
TS 23.038

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		0.0.0

Keywords
UMTS

Projects
TSG T
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Mandates

Secretariat Comments
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Estimate schedule only (to be revised)

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TSI WORK PROGRAM (EWP) **Work Item Reference:**

Deliverable TS **Edition:** **Rapporteur:** Harris, Ian
Creation date: 11/03/1999 **Lead Body:** ETSI **Tel:** +44 1635 673 270 **Fax:** +44 1635 673 258
Standstill: **Cover date:** **E-mail:** ian.harris@vads.vodafone.co.uk
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Short Message Service (SMS) Cell Broadcast (CB); Messaging (Cell Broadcast); Stage 2/3 (3G TS 23.041)

Scope and field of application:
The present document specifies the CBS stage 2/3 based on GSM 03.41.
References 03.41, 04.12, 03.38, 03.49.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		3.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		0.0.0

Keywords
UMTS

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TSI WORK PROGRAM (EWP) **Work Item Reference:**

Deliverable MI **Edition:** **Rapporteur:** Lockart, Rob (Motorola)
Creation date: 10/03/1999 **Lead Body:** ETSI **Tel:** **Fax:**
Standstill: **Cover date:** **E-mail:**
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 05/10/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Terminal interfaces; synchronisation and object exchange

Scope and field of application:
Report identifing applications not covered elsewhere + and propose method of handling in WG2
Reference: ETSI 04.02, 07.08. ARIB Vol.4, Ch.8

This WI monitors:
TR 27.903 Discussion of synchronisation standards
TS Wide Area Network Synchronisation

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99					23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99				**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99				**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99				**17/12/1999**		0.0.0

Keywords
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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTR/TSGT-02TI_OAP_U

Deliverable TR **Edition:** **Rapporteur:** Lockart, Rob ~~Holley, Kevin~~
Creation date: 10/03/1999 **Lead Body:** ETSI **Tel:** ~~+44 1473 605604~~ **Fax:** ~~+44 20 7519 9028~~
Standstill: **Cover date:** **E-mail:**
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 20/05/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Terminal interfaces; Discussion of synchronisation standards (3G TR 27.903) ~~synchronisation and object exchange~~

Scope and field of application:
Report identifing applications not covered elsewhere + and propose method of handling in WG2
Reference: ETSI 04.02, 07.08. ARIB Vol.4, Ch.8

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99					23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99				**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99				**08/10/1999**		3.0.0
5 S	TSG-T#6 Dec 99				**17/12/1999**		0.0.0

Keywords
UMTS

Projects
TSG T
UMTS

Mandates

Secretariat Comments

10/03/1999	doig	WI reference subject to change. Estimate schedule only (to be revised)
14/04/1999	doig	The title of this document changed to synchronisation and object exchange. It shall be based on IrMC 1.1 Missing editor and responsible

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TSI WORK PROGRAM (EWP) **Work Item Reference:**

Deliverable TS **Edition:** **Rapporteur:** Lockart, Rob
Creation date: **Lead Body:** **Tel:** **Fax:**
Standstill: **Cover date:** **E-mail:** kevin.holley@bt.com
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 20/05/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Terminal interfaces; Wide Area Network Synchronisation

Scope and field of application:
This specification provides a definition of a Wide Area Synchronisation protocols. The synchronization protocol is based upon IrMC level 4.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99					23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99				**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99				**08/10/1999**		1.0.0
5 S	TSG-T#6 Dec 99				**17/12/1999**		3.0.0

Keywords
UMTS

Projects
TSG T
UMTS

Mandates

Secretariat Comments

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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTR/TSGT-0234907U

Deliverable TR **Edition:** **Rapporteur:** Iimori, Eiji
Creation date: 14/04/1999 **Lead Body:** ETSI **Tel:** +81 42 585 3345 **Fax:** +81 42 585 3035
Standstill: **Cover date:** **E-mail:** iimori@msrd.hino.toshiba.co.jp
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/08/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Electrical safety requirements and regulations (3G TR 34.907)

Scope and field of application:
The present document provides the information on electrical safety requirements for Information and Technical equipment including 3G mobile phone in each country and region.
The present document summarises the difference between international standards and national standards relevant to IEC60950 and also refers to regulations with regard to the conformity assessment because each country has different standards from other countries in current situation.
The present document does not define any new electrical safety requirements.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		19/03/1999	19/03/1999	**20/04/1999**	19/03/1999	0.0.0
0 a	TB adoption of WI		20/04/1999	23/04/1999	**20/04/1999**	23/04/1999	0.0.0
1	Start of work		20/04/1999	23/04/1999	**20/04/1999**	23/04/1999	0.0.0
5 S	TSG-T#3 Apr 99		23/04/1999	23/04/1999		23/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	18/06/1999	1.0.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		3.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

Keywords
UMTS
SAFETY
ELECTRIC
TERMINAL

Projects
3G April 1999 Release
3G June 1999 Release
TSG T
UMTS

Mandates

Secretariat Comments

10/03/1999	doig	WI reference subject to change. Estimate schedule only (to be revised)
14/04/1999	doig	WI created at T2#2. To be confirmed at TSGT#3

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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTR/TSGT-0234925U

Deliverable TR **Edition:** **Rapporteur:** Johnsson, Sven
Creation date: 11/03/1999 **Lead Body:** ETSI **Tel:** +46 46 19 47 27 **Fax:** +46 46 19 31 36
Standstill: **Cover date:** **E-mail:** sven.johnsson@ecs.ericsson.se
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/08/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Specific Absorbtion Rate (SAR) requirements and regulations in different regions (3G TR 34.925)

Scope and field of application:
Report on safety requirements & regulations in different regions.
Ref ARIB Vol4, chapter 4
Specific Absorption Rate (Watts/kilogram)

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	1.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	3.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		

Keywords
SAR
SAFETY
TERMINAL
UMTS

Projects
3G April 1999 Release
3G June 1999 Release
TSG T
UMTS

Mandates

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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTR/TSGT-0221904U

Deliverable TR **Edition:** **Rapporteur:** Bishop, Craig
Creation date: 11/03/1999 **Lead Body:** ETSI **Tel:** +44 1784 428 600 **Fax:** +44 1784 428 629
Standstill: **Cover date:** **E-mail:** ckbishop@aol.com
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Terminal capability requirements (3G TR 21.904)

Scope and field of application:
This document defines a baseline set of capability requirements that enable all terminals to "register" with all applicable 3GPP networks (depending on the availability of a appropriate subscription). It describes all the functions that a terminal has to perform in order to "exist" within a 3GPP network. These functions are used to derive requirements for all aspects of terminal baseline capability. This document also identifies different Terminal Service Capabilities and the functions that a terminal must perform in order to access a service. The actual capabilities that a terminal must posses to meet these requirements are listed in the Annexes to this document and described in the referenced implementation specifications.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99					23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99				**18/06/1999**	18/06/1999	0.0.3
5 S	TSG-T#5 Oct 99				**08/10/1999**		1.0.0
5 S	TSG-T#6 Dec 99				**17/12/1999**		3.0.0

Keywords
UMTS

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3G April 1999 Release
3G June 1999 Release
TSG T
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Secretariat Comments

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03/09/1999	zoicas	Title changed: "Terminal features and performance (General features)"->

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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTR/TSGT-02TI_P_U

Deliverable TR **Edition:** **Rapporteur:** Novak, Lars
Creation date: 10/03/1999 **Lead Body:** ETSI **Tel:** +46 46 19 35 16 **Fax:** +46 46 19 31 36
Standstill: **Cover date:** **E-mail:** lars.novak@ecs.ericsson.se
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Terminal interfaces (physical interface) (3G TR 27.903)

Scope and field of application:
Report on options. References: ETSI 04.02, 07.10. ARIB Vol.4, Ch.8

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99					23/04/1999	0.0.1
5 S	TSG-T#4 Jun 99				**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99				**08/10/1999**		1.0.0
5 S	TSG-T#6 Dec 99				**17/12/1999**		3.0.0

Keywords
UMTS

Projects
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UMTS

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Secretariat Comments

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14/04/1999	doig	Editor is NTT DoCoMo Based on the NTT DoCoMo chapter 5

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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTR/TSGT-02MmT1U

Deliverable TR **Edition:** **Rapporteur:** Persson, Sofi
Creation date: 11/03/1999 **Lead Body:** ETSI **Tel:** +46 40 10 51 25 **Fax:** +46 70 616 1362
Standstill: **Cover date:** **E-mail:** sofi.a.persson@telia.se
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 20/05/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Multi-system~~mode~~ terminal issues (3G TR 21.910)

Scope and field of application:
Report on work already done, and issues that need additional treatment to allow efficient multi-mode terminal implementations.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T WG T2 Mar 99			22/03/1999	**22/03/1999**	22/03/1999	0.0.0
5 S	TSG-T WG T2 Apr 99			21/04/1999	**21/04/1999**	21/04/1999	0.0.1
5 S	TSG-T#3 Apr 99			23/04/1999	**23/04/1999**	23/04/1999	0.1.0
5 S	TSG-T#4 Jun 99			18/06/1999	**17/06/1999**	18/06/1999	0.2.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		1~~3~~.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		**3.0.0**

Keywords
MULTIMODE
TERMINAL
UMTS

Projects
TSG T
UMTS

Mandates

Secretariat Comments
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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTR/TSGT-0222945U

Deliverable TR **Edition:** **Rapporteur:** Colban, Erik
Creation date: 20/05/1999 **Lead Body:** ETSI **Tel:** +4766841844 **Fax:** +4766981095
Standstill: **Cover date:** **E-mail:** eric.a.colban@ericsson.no
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WT: **Database record last update:** 03/09/1999
Title: 3rd Generation Partnership Project;
Technical Specification Group Terminals (TSG-T);
Study on provision of facsimile services in GSM and UMTS (3G TR 22.945)

Scope and field of application:
This document gives guidance on how facsimile services can be provided in a GSM or UMTS network. It studies how facsimile messages can beexchanged between mobile equipment and a PSTN facsimile machine. Although the approaches described herein can be applied to cases where one ofthe end points are connected to a PSTN, the study of such cases are out of the scope of this document.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	23/06/1999	1.0.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		3.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

Keywords
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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTS/TSGT-0227007U

Deliverable TS **Edition:** **Rapporteur:** Novak, Lars
Creation date: 20/05/1999 **Lead Body:** ETSI **Tel:** +46 46 19 35 16 **Fax:** +46 46 19 31 36
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Technical body in charge: 3GPP T **Technical editor:** Zoicas, Adrian
WT: **Database record last update:** 03/08/1999
Title:
Technical Specification Group Terminals (TSG-T);
AT command set for 3GPP User Equipment (UE) (3G TS 27.007)

Scope and field of application:
Transfer of GSM 07.07 to 3GPP.
Progress is monitored by the Generic work item MI/TSGT-02_AT_U.

This TS specifies a profile of AT commands and recommends that this profile be used for controlling Mobile Equipment (ME) functions and GSM networ vices from a Terminal Equipment (TE) through Terminal Adaptor
TA). The command prefix +C is reserved for Digital Cellular in ITU-T Recommendation V.25ter. This TS has also the syntax details used to onstructthese extended GSM commands. Commands from ITU-T Recommendation V.25ter and existing digital cellular standards (TIA IS-99 and IA IS-135) are used whenever applicable. Some of the new commands are defined such way that they can be easilyapplied to ME of networks ther than GSM.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	Transfer 07.07 from SMG to 3GPP		28/04/1999	28/04/1999		28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	18/06/1999	3.1.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTS/TSGT-0227010U

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Technical body in charge: 3GPP T **Technical editor:** Zoicas, Adrian
WT: **Database record last update:** 03/08/1999
Title:
Technical Specification Group Terminals (TSG-T);
Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol (3G TS 27.010)

Scope and field of application:
Transfer of GSM 07.10 to 3GPP.

This TS defines a multiplexing protocol between a mobile station and a terminal. The multiplexing protocol can be used to send any data, for instance voice, SMS, USSD, fax etc. The present document describes the protocol, but not the commands or data transported with it.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	Transfer 07.10 from SMG to 3GPP		28/04/1999	28/04/1999		28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	18/06/1999	3.1.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTS/TSGT-0223039U

Deliverable TS **Edition:** **Rapporteur:** Harris, Ian
Creation date: 20/05/1999 **Lead Body:** ETSI **Tel:** +44 1635 673 270 **Fax:** +44 1635 673 258
Standstill: **Cover date:** **E-mail:** ian.harris@vads.vodafone.co.uk
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title:
Technical Specification Group Terminals (TSG-T);
nterface protocols for the connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs) (3G TS 23.039)

Scope and field of application:
Transfer of GSM 03.39 to 3GPP.
Progress is monitored by the Generic work item MI/TSGT-02_SMS_U.

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The present document describes a range of alternative interfaces which may be utilised by Short Message Service Centre (SMSC), and ShortMessage Enti ME), developers for the connection of SMEs to SMSCs. The purpose of the present document is to provide a single document within which the various proprietary SMSC to SME interface standards maybe accommodated as optional implementations. As stated in GSM 03.40, the unctionality of the SMSC is outside of the scope of the GSM Technical Specifications. As a result, no standardised interfaces have been specified for the nnection of SMEs to the SMSC. Inthe absence of a prevailing standard, SC (Service Centre), developers have devised their own protocols which have not necessarily been based on anyexisting standards and are therefore largely incompatible with one another. It has been recognised by TC-SM t the development of a single
tandard at this stage, would be of little value as these proprietary standards are now in extensive use in manynetworks. TC-SMG has concluded nat the publication by ETSI of the various de facto protocols, will limit the further proliferation of proprietary standardsand will benefit new C/SME developers who may then adopt one or more of the existing protocols outlined in the present document

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	Transfer 03.39 from SMG to 3GPP		28/04/1999	28/04/1999		28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	23/06/1999	3.0.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

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Creation date: 20/05/1999
Standstill:
Technical body in charge: 3GPP T
WT:
Title:
Technical Specification Group Terminals (TSG-T);
Short Message Service (SMS) Cell Broadcast (CB); Alphabets and language- specific information (3G TS 23.038)

Edition:
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Cover date:

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Technical editor: Rodermund, Friedhelm
Database record last update: 03/09/1999

Scope and field of application:
Transfer of GSM 03.38 to 3GPP.
Progress is monitored by the Generic work item MI/TSGT-02_SMS_CB_U.

This TS defines the language-specific requirements for GSM. These are specific code points required by the Short Message Service (SMS) specifications which in turn are used not
only for SMS (GSM 03.40, 03.41) but also for Unstructured Data (GSM 02.90) and may additionally beused for Man Machine Interface (MMI) (GSM 02.30). The specification for the Data Circuit terminating Equipment/Data Terminal Equipment (DCE/DTE) interface (GSM 07.05) will also use the codes specified herein for the transfer of SMS data to an external terminal.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	Transfer 03.38 from SMG to 3GPP		28/04/1999	28/04/1999		28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	23/06/1999	3.1.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

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GSM
UMTS
SMS
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TSI WORK PROGRAM (EWP) **Work Item Reference:** DTS/TSGT-0227005U

Deliverable TS **Edition:** **Rapporteur:** Harris, Ian
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Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
PT: **Database record last update:** 03/09/1999
Title:
Technical Specification Group Terminals (TSG-T);
Use of DTE- DCE interface for SMS and CBS (3G TS 27.005)

Scope and field of application:
Transfer of GSM 07.05 to 3GPP.
Progress is monitored by the Generic work item MI/TSGT-02_AT_U.

This TS defines three interface protocols for control of SMS functions within a GSM mobile telephone from a remote terminal via an asynchronous interface. This specification considers the mobile termination to be a single entity. Other GSM TSs describe the split of functionality between the mobile equipment and SIM.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	Transfer 07.05 from SMG to 3GPP		28/04/1999	28/04/1999		28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	18/06/1999	3.0.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

Keywords
GSM
UMTS
SMS
CB

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ETSI WORK PROGRAM (EWP) Work Item Reference: DTS/TSGT-0222140U

Deliverable TS **Edition:** **Rapporteur:** Schmidt, Gunnar
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Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title: 3rd Generation Mobile Telecommunications;
Technical Specification GroupTerminal (TSG-T);
Messaging (Multimedia Messaging Service); Stage 1 (3G TS 22.140)

Scope and field of application:
The present document specifies the Multimedia Messaging Service stage 1.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0.a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5.S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5.S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5.S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		0.0.0
5.S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		0.0.0

Keywords
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WT: **Database record last update:** 03/09/1999
Title:
Technical Specification GroupTerminal (TSG-T);
Messaging (Multimedia Messaging Service); Stage 2/3 (3G TS 23.140)

Scope and field of application:
The present document specifies the Multimedia Messaging Service stage 2/3.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		1~~0~~.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		3~~1~~.0.0
5 S	TSG-T#7 Mar 00				**15/03/2000**		~~3.0.0~~

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Creation date: 20/05/1999 **Lead Body:** ETSI **Tel:** +44 1793 566297 **Fax:** +44 1793 566 225
Standstill: **Cover date:** **E-mail:** mcatald1@ecid.cig.mot.com
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 02/08/1999
Title: 3rd Generation Partnership Project;
Technical Specification Group Terminals (TSG-T);
Mobile Station Application Execution Environment (MExE); Functional description; Stage 2 (3G TS 23.057)

Scope and field of application:
Transfer of GSM 03.57 to 3GPP.

This TS defines the stage two description of the Mobile Station Application Execution Environment (MExE). Stage 2 identifiesthe functional capabilities and information flows needed to support the service described in stage 1. This TS includes information applicable to network operators, service providers and terminal,
switch and database manufacturers. This TS contains the core functions for a Mobile Station Application Execution Environment (MExE) which are sufficient to provide a completeservice. MExE uses a number of
technologies to realise the requirements of the stage 1 description (GSM 02.57). This TS describes how the service requirements arerealised with the selected technologies. The TS is devised into sections each covering the aspects relating to particular MExE technologies, it isintended that this specification will evolve along with the MExE technologies. A generic section of the specification covers areas of MExE commonto all technologies.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	Transfer 03.57 from SMG to 3GPP		28/04/1999	28/04/1999		28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99 (MExE R98 GSM 03.57)		18/06/1999	18/06/1999	**18/06/1999**	18/06/1999	1.1.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		3.0.0

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WT: **Database record last update:** 03/09/1999
Title:
Technical Specification Group Terminals (TSG-T);
Technical realization of the Short Message Service (SMS); Point-to-Point (PP) (3G TS 23.040)

Scope and field of application:
Transfer of GSM 03.40 to 3GPP.
Progress is monitored by the Generic work item MI/TSGT-02_SMS_U.

This TS describes the point-to-point Short Message Service (SMS) of the GSM PLMN system. It defines: -the services and service elements; -the network hitecture; -the Service Centre functionality; -the MSC functionality (with regard to the SMS); -the SGSN functionality (with regard to the SMS); -the uting requirements; -the protocols and protocol layering; for the Teleservices 21 and 22, as specified in the GSM 02.03. The use of radio resources for the nsfer of short
messages between the MS and the MSC or the SGSN is described in GSM 04.11 "Point-to-PointShort Message Service Support on Mobile Radio Interfac d is dealt with in that specification. The network aspects of Short Message Service provision are outside the scope of this specification (i.e. the provision work
onnectivity between the PLMNsubsystems). There is no technical restriction within this specification for the transfer of short messages between different MN's. Any suchrestriction is likely to be subject to
ommercial arrangements and PLMN operators must make their own provision for interworking or for preventinginterworking with other PLMN's as they ee fit. The required and assumed network service offered to the higher layers is defined in this specification. The Cell Broadcast Short Message ervice (Teleservice 23) is a separate service, and is described in GSM 03.41 "Technical Realization of theShort Message Service - Cell roadcast".

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	Transfer 03.40 from SMG to 3GPP		28/04/1999	28/04/1999		28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	23/06/1999	3.1.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

Keywords
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Standstill: **Cover date:** **E-mail:** ian.harris@vads.vodafone.co.uk
Technical body in charge: 3GPP T **Technical editor:** Rodermund, Friedhelm
WT: **Database record last update:** 03/09/1999
Title:
Technical Specification Group Terminals (TSG-T);
Compression algorithm for text messaging services (3G TS 23.042)

Scope and field of application:
Transfer of GSM 03.42 to 3GPP.
Progress is monitored by the Generic work item MI/TSGT-02_SMS_U.

The present document introduces the concepts and mechanisms involved in the compression and decompression of a stream of data.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		28/04/1999	28/04/1999		28/04/1999	
0 a	TB adoption of WI		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
1	Start of work		28/04/1999	28/04/1999	28/04/1999	28/04/1999	
5 S	Transfer 03.42 from SMG to 3GPP		28/04/1999	28/04/1999		28/04/1999	
5 S	TSG-SA#3 Apr 99		28/04/1999	28/04/1999		28/04/1999	1.0.0
5 S	TSG-T#4 Jun 99		18/06/1999	18/06/1999	**18/06/1999**	23/06/1999	3.0.0
5 S	TSG-T#5 Oct 99		08/10/1999	08/10/1999	**08/10/1999**		0.0.0
5 S	TSG-T#6 Dec 99		17/12/1999	17/12/1999	**17/12/1999**		0.0.0

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WT: **Database record last update:** 03/09/1999
Title: 3rd Generation Mobile Telecommunications;
Technical Specification GroupTerminal (TSG-T);
Short Message Service (SMS) Cell Broadcast (CB); Messaging (Advanced Cell Broadcast); Stage 2/3

Scope and field of application:
The present document specifies the Advanced CBS stage 2/3.

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		1.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		3.0.0

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Title:
Technical Specification GroupTerminal (TSG-T);
Terminal interfaces (Alternatives to AT commands)

Scope and field of application:
Report on options:

Status	Phase	Action	Original	Review	Target	Achieved	Version
0	Creation of WI by WG/TB		04/03/1999	04/03/1999		04/03/1999	0.0.0
0 a	TB adoption of WI		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
1	Start of work		04/03/1999	04/03/1999	04/03/1999	04/03/1999	0.0.0
5 S	TSG-T#3 Apr 99			23/04/1999		23/04/1999	0.0.0
5 S	TSG-T#4 Jun 99			18/06/1999	**18/06/1999**	18/06/1999	0.0.0
5 S	TSG-T#5 Oct 99			08/10/1999	**08/10/1999**		1.0.0
5 S	TSG-T#6 Dec 99			17/12/1999	**17/12/1999**		3.0.0

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