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1. Introduction

1.1 Conventions and abbreviations

In this document, the GSM engines are referred to as following term:

ME (Mobile Equipment);

MS (Mobile Station);

TA (Terminal Adapter);

DCE (Data Communication Equipment) or facsimile DCE (FAX modem, FAX board);

In application, controlling device controls the GSM engine by sending AT Command via its serial interface. The controlling device at the other end of the serial line is referred to as following term:

TE (Terminal Equipment);

DTE (Data Terminal Equipment) or plainly "the application" which is running on an embedded system.

1.2 AT Command syntax

The "AT" or "at" or "At" or "At" prefix must be set at the beginning of each Command line. To terminate a Command line enter <CR>.Detailed Description of AT Commands

Commands are usually followed by a response that includes. "<CR><LF>"response><CR><LF>" Throughout this document, only the responses are presented, CR><LF> are omitted intentionally. The AT Command set implemented by SIM7500&SIM7600 Series is a combination of 3GPP TS 27.005, 3GPP TS 27.007 and ITU-T recommendation V.25ter and the AT commands developed by SIMCom.

2. AT Commands for Status Control

2.1 ATE Enable command echo

This command sets whether or not the TA echoes characters

ATE Enable command echo	
Execution Command	Response
ATE[<value>]</value>	OK
	or
	ERROR

Defined	Va	lues
---------	----	------

<value></value>	0 – Echo mode off
-----------------	-------------------



1 Falsa manda an
l 1 – Echo mode on
1 2010 111000 011

ATE1			
OK			

2.2 ATI Display product identification information

This command is used to request the product information, which consists of manufacturer identification, model identification, revision identification, International Mobile station Equipment Identity (IMEI) and overall capabilities of the product.

ATI Display product identification information		
Execution Command	Response	
ATI	Manufacturer: <manufacturer></manufacturer>	
	Model: <model></model>	
	Revision: <revision></revision>	
	IMEI: [<sn>]</sn>	
	+GCAP: list of <name>s</name>	
	OK	

Example

ATI

Manufacturer: SIMCOM

INCORPORATED

Model: SIMCOM_SIM7600C Revision: SIM7600C _V1.0 IMEI: 351602000330570

+GCAP: +CGSM,+FCLASS,+DS

OK

2.3 AT+IPR Set local baud rate temporarily

This command sets the baud rate of module's serial interface temporarily, after reboot the baud rate is set to value of IPREX.

AT+IPR Set local baud rate temporarily		
Test Command	Response	
AT+IPR=?	+IPR: (list of supported <speed>s)</speed>	
	OK	
Read Command	Response	
AT+IPR?	+IPR: <speed></speed>	
	OK	



Write Command	Response
AT+IPR= <speed></speed>	OK
	or
	ERROR
Execution Command	Set the value to boot value:
AT+IPR= <speed></speed>	ОК
Defined Values	
<speed></speed>	Baud rate per second:
	0, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600,
	115200,
	230400, 460800,921600, 3000000,3200000,3686400

2.4 AT&W Save the user setting to ME

This command will save the user settings to ME

AT&W Save the user setting to ME		
Write Command	Response	
AT&W <value></value>	OK	
	or	
	ERROR	
Execution Command	Set default value: 0	
AT&W	OK	
	or	
	ERROR	
Defined Values		
<value></value>	0 – Save	
Example		
AT&W0		
OK		

2.5 AT+CGSN Request product serial number identification

This command requests product serial number identification text, which is intended to permit the user of the Module to identify the individual ME to which it is connected to.

AT+CGSN Request product serial number identification		
Test Command	Response	
AT+CGSN=?	OK	



Execution Command	Response
AT+CGSN	<sn></sn>
	OK
	or
	+CME ERROR: memory failure
Defined Values	
<sn></sn>	Serial number identification, which consists of a single line
	containing
	the IMEI (International Mobile station Equipment Identity)
	number of
	the MT.
	If in CDMA/EVDO mode, it will show ESN(Electronic Serial
	Number)

AT+CGSN 351602000330570 OK

2.6 AT+CFUN Set phone functionality

This command is used to select the level of functionality <fun> in the ME. Level "full functionality" is where the highest level of power is drawn. "Minimum functionality" is where minimum power is drawn. Level of functionality between these may also be specified by manufacturers. When supported by manufacturers, ME resetting with <rst> parameter may be utilized.

Note: AT+CFUN=6 must be used after setting AT+CFUN=7. If module in offline mode, must execute AT+CFUN=6 or restart module to online mode.

AT+CFUN Set phone functionality		
Test Command	Response	
AT+CFUN=?	+CFUN: (list of supported <fun>s),(list of supported <rst>s)</rst></fun>	
	OK	
	or	
	ERROR	
	or	
	+CME ERROR: <err></err>	
Read Command	Response	
AT+CFUN?	+CFUN: <fun></fun>	
	OK	
	or	
	ERROR	



	or +CME ERROR: <err></err>
Write Command	Response
AT+CFUN= <fun>[,<rst></rst></fun>	ОК
	or
	ERROR
	or
	+CME ERROR: <err></err>

Defined Values

-	
<fun></fun>	0 – minimum functionality
	1 – full functionality, online mode
	4 – disable phone both transmit and receive RF circuits
	5 – Factory Test Mode
	6 – Reset 7 – Offline Mode
	7 – Offline Mode
<rst></rst>	0 - do not reset the ME before setting it to <fun> power</fun>
	level
	1 – reset the ME before setting it to <fun> power level. This</fun>
	value only takes effect when <fun> equals 1.</fun>

Example

AT+CFUN?		
+CFUN: 1		
OK		
AT+CFUN=0		
OK		

2.7 AT+CCID Read CCID from SIM card

This command is used to Read the CCID from SIM card

AT+CCID Read CCID from SIM card		
Test Command	Response	
AT+CICCID=?	OK	
Execution Command	Response	
AT+CCID	+CCID: <ccid></ccid>	
	OK	
	or	
	ERROR	



	or
	+CME ERROR: <err></err>
Defined Values	
<ccid></ccid>	Integrate circuit card identity, a standard CCID is a 20-digit
	serial number of the SIM card,it presents the publish state,
	network code, publish area, publish date, publish
	manufacture and press serial number of the SIM card.

AT+CCID

+CCID: 898600700907A6019125

OK

2.8 AT+CSQ Query signal quality

This command is used to return received signal strength indication <rssi> and channel bit error rate <ber> from the ME. Test command returns values supported by the TA as compound values.

AT+CSQ Query signal quality		
Test Command	Response	
AT+CSQ=?	+CSQ: (list of supported <rssi>s),(list of supported <ber>s)</ber></rssi>	
	OK	
Execution Command	Response	
AT+CSQ	+CSQ: <rssi>,<ber></ber></rssi>	
	OK	
	or	
	ERROR	

<rssi></rssi>	0 – -113 dBm or less
	1 – -111 dBm
	230 – -10953 dBm
	31 – -51 dBm or greater
	99 – not known or not detectable
	100 – -116 dBm or less
	101 – -115 dBm
	102···191 – -11426dBm
	191 – -25 dBm or greater
	199 – not known or not detectable



	100···199 – expand to TDSCDMA, indicate RSCP received
<ber></ber>	(in percent)
	0 - < 0.01%
	1 - 0.01% 0.1%
	2 – 0.1% 0.5%
	3 - 0.5% 1.0%
	4 – 1.0% 2.0%
	5 – 2.0% 4.0%
	6 – 4.0% 8.0%
	7 ->=8.0%
	99 – not known or not detectable

AT+CSQ +CSQ: 22,0 OK

2.9 AT+CMEE Report mobile equipment error

This command is used to disable or enable the use of result code "+CME ERROR: <err>" or "+CMS ERROR: <err>" as an indication of an error relating to the functionality of ME; when enabled, the format of <err> can be set to numeric or verbose string.

AT+CMEE Report mobile equipment error		
Test Command	Response	
AT+CMEE=?	+CMEE: (list of supported <n>s)</n>	
	OK	
Read Command	Response	
AT+CMEE?	+CMEE: <n></n>	
	OK	
Write Command	Response	
AT+CMEE= <n></n>	OK	
	or	
	ERROR	
Execution Command	Response	
AT+CMEE	Set default value:	
	OK	
Defined Values		
	O Disable result gode is only "EDDOD" will be displayed	

<n></n>	0 – Disable result code, i.e. only	"ERROR"	will be displayed.
	1 – Enable error result code with	n numeric	values.
	2 – Enable error result code witl	n string val	lues.



AT+CMEE? +CMEE: 2

OK

AT+CPIN=" 1234" ," 1234"

+CME ERROR: incorrect password

AT+CMEE=0

OK

AT+CPIN=" 1234" ," 1234"

ERROR

AT+CMEE=1

OK

AT+CPIN=" 1234" ," 1234"

+CME ERROR: 16

3. Detailed Description of AT Commands for Call Control

3.1 ATD Mobile Originated Call to Dial A Number

This command can be used to set up outgoing data calls. It also serves to control supplementary services.

ATD Mobile Originated Call to Dial A Number		
Execution Command	Response	
ATD <n>[<mgsm][;]< th=""><th>a) If originate a voice call successfaully:</th></mgsm][;]<></n>	a) If originate a voice call successfaully:	
	OK	
	VOICE CALL: BEGIN	
	b) If Originate a data call successfully:	
	CONNECT [<text>]</text>	
	c) Originate a call unsuccessfully during command execution:	
	ERROR	
	d)Originate a call unsuccessfully for failed connection	
	recovery:	
	NO CARRIER	
	e)Originate a call unsuccessfully for error related to the MT:	
	+CME ERROR: <err></err>	
Parameter Saving Mode	NO_SAVE	
Maximum Response Time	Timeout set with ATS7 (data call)	

Example



ATD10086;

OK

VOICE CALL: BEGIN

3.2 ATA Call answer

This command is used to make remote station to go off-hook, e.g. answer an incoming call. If there is no an incoming call and entering this command to TA, it will be return "NO CARRIER" to TA.

ATA Call answer	
Execution Command	Response
ATA	a) If originate a voice call successfaully:
	ОК
	VOICE CALL: BEGIN
	b) For data call, and TA switches to data mode:
	CONNECT
	c) No connection or no incoming call:
	NO CARRIER

Example

ATA

VOICE CALL: BEGIN

OK

3.3 ATH Disconnect existing call

This command is used to disconnect existing call. Before using ATH command to hang up a voice call, it must set AT+CVHU=0. Otherwise, ATH command will be ignored and "OK" response is given only. This command is also used to disconnect PS data call, and in this case it doesn' t depend on the value of AT+CVHU.

ATH Disconnect existing call	
Execution Command	Response
ATH	a) If AT+CVHU=0:
	VOICE CALL: END: <time></time>
	OK
	or
	OK

<time></time>	Voice call connection time:
	Format – HHMMSS (HH: hour, MM: minute, SS: second)



AT+CVHU=0

OK ATH

VOICE CALL: END: 000017

OK

3.4 AT+CHUP Hang up call

This command is used to cancel voice calls. If there is no call, it will do nothing but OK response is given. After running AT+CHUP, multiple "VOICE CALL END:" may be reported which relies on how many calls exist before calling this command.

AT+CHUP Hang up cal	
Test Command	Response
AT+CHUP=?	OK
Execution Command	Response
AT+CHUP	VOICE CALL: END: <time></time>
	[
	VOICE CALL: END: <time>]</time>
	OK
	No call:
	OK
Maximum Response Time	120000ms

Defined Values

<time></time>	Voice call connection time.
	Format - HHMMSS (HH: hour, MM: minute, SS: second)

Example

AT+CHUP

VOICE CALL:END: 000017

OK

4. AT Commands for SMS

4.1 AT+CPMS Preferred message storage

This command is used to select memory storages <mem1>, <mem2> and <mem3> to be



used for reading, writing, etc.

AT+CPMS Preferred mess	age storage
Test Command	Response
AT+CPMS=?	a)
	+CPMS: (list of supported <mem1>s),(list of supported</mem1>
	<mem2>s),(list of supported <mem3>s)</mem3></mem2>
	OK
	b) If failed:
	ERROR
Read Command	<mem1>,<used1>,<total1>,<mem2>,<used2>,<total2>,</total2></used2></mem2></total1></used1></mem1>
AT+CPMS?	<pre><mem3>,<used3>,<total3></total3></used3></mem3></pre>
711 - 01 1010.	OK
Write Command	Response
AT+CPMS= <mem1>[,</mem1>	a)
<mem2>[,<mem3>]]</mem3></mem2>	+CPMS:
\mem2>[,\mem3>]]	<pre></pre>
	OK
	b) If failed: ERROR
	ERROR
Defined Values	
<mem1></mem1>	String type, memory from which messages are read and
	deleted
	(commands List Messages AT+CMGL, Read Message
	AT+CMGR
	and Delete Message AT+CMGD).
	"ME" and "MT" - FLASH message storage
	"SM" - SIM message storage
	"SR" - Status report storage (not used in
	CDMA/EVDO mode)
<mem2></mem2>	String type, memory to which writing and sending
11101112	operations are
	made (commands Send Message from Storage AT+CMSS
	and
	Write Message to Memory AT+CMGW).
	"ME" and "MT" - FLASH message storage
	"SM" - SIM message storage
<mem3></mem3>	String type, memory to which received SMS is preferred to
·IIIUIIU/	be
	stored (unless forwarded directly to TE; refer command
	New
	Message Indications AT+CNMI).
	"ME" - FLASH message storage



	"SM" - SIM message storage GSM phase 2+.
<usedx></usedx>	Integer type, number of messages currently in <memx>.</memx>
<totalx></totalx>	Integer type, total number of message locations in <memx>.</memx>

```
AT+CPMS=?
+CPMS: ( "ME" ," MT" ," SM" ," SR" ),( "ME" ," MT" ," SM" ),( "ME" ," SM" )
OK
AT+CPMS?
+CPMS: "ME" , 0,23," ME" , 0,23," ME" , 0,23
OK
AT+CPMS=" SM" ," SM" ," SM"
+CPMS: 3,50,3,50,3,50
OK
```

4.2 AT+CSCA SMS service centre address

This command is used to update the SMSC address, through which mobile originated SMS are transmitted.

Note: This command not support in CDMA/EVDO mode

AT+CSCA SMS service centre address	
Test Command	Response
AT+CSCA=?	a)
	OK
	b) If failed:
	ERROR
Read Command	Response
AT+CSCA?	+CSCA: <sca>,<tosca></tosca></sca>
	OK
Write Command	Response
AT+CSCA= <sca>[,<tosca>]</tosca></sca>	a)
	OK
	b) If failed:
	ERROR

<sca></sca>	Service Center Address, value field in string format, BCD
	numbers (or GSM 7 bit default alphabet characters) are
	converted to characters of the currently selected TE
	character set (refer to command AT+CSCS), type of address



	given by <tosca>.</tosca>
<tosca></tosca>	SC address Type-of-Address octet in integer format, when
	first character of <sca> is + (IRA 43) default is 145, otherwise</sca>
	default is 129.

AT+CSCA=" +8613012345678"

OK

AT+CSCA?

+CSCA: "+8613012345678" ,145

OK

4.3 AT+CMGF Select SMS message format

This command is used to specify the input and output format of the short messages.

AT+CMGF Select SMS messa	age format
Test Command	Response
AT+CMGF=?	a)
	+CMGF: (range of supported <mode>s)</mode>
	OK
	b) If failed:
	ERROR
Read Command	Response
AT+CMGF?	a)
	+CMGF: <mode></mode>
	OK
	b) If failed:
	ERROR
Write Command	Response
AT+CMGF= <mode></mode>	a)
	OK
	b) If failed:
	ERROR
Execution Command	Response
AT+CMGF	a) Set default value (<mode>=0):</mode>
	OK
	b) If failed:
	ERROR

<mode></mode>	0 – PDU mode
	1 – Text mode



AT+CMGF=1 OK

4.4 AT+CMGR Read message

This command is used to return message with location value <index> from message storage <mem1> to the TE.

AT CMCD D I		
AT+CMGR Read messa		
Test Command	Response	
AT+CMGR=?	OK	
Write Command	a) If text mode (AT+CMGF=1), command successful and SMS-	
AT+CMGR= <index></index>	DELIVER:	
	+CMGR:	
	<stat>,<oa>,[<alpha>],<scts>[,<tooa>,<fo>,<pid>,<dcs>,<sca< td=""></sca<></dcs></pid></fo></tooa></scts></alpha></oa></stat>	
	>, <tosca>,<length>]<cr><lf><data></data></lf></cr></length></tosca>	
	OK	
	b) If text mode (AT+CMGF=1), command successful and SMS-	
	SUBMIT:	
	+CMGR:	
	<pre><stat>,<da>,[<alpha>][,<toda>,<fo>,<pid>,<dcs>,[<vp>],<sca></sca></vp></dcs></pid></fo></toda></alpha></da></stat></pre>	
	, <tosca>,<length>]<cr><lf><data></data></lf></cr></length></tosca>	
	OK	
	c) If text mode (AT+CMGF=1), command successful and SMS-	
	STATUS-REPORT:	
	+CMGR: <stat>,<fo>,<mr>,[<ra>],[<tora>],<scts>,<dt>,<st></st></dt></scts></tora></ra></mr></fo></stat>	
	OK	
	d) If text mode (AT+CMGF=1), command successful and SMS-	
	COMMAND:	
	+CMGR:	
	<pre><stat>,<fo>,<ct>[,<pid>,[<mn>],[<da>],[<toda>],<length>]<cr< pre=""></cr<></length></toda></da></mn></pid></ct></fo></stat></pre>	
	> <lf><data></data></lf>	
	OK	
	e) If text mode (AT+CMGF=1), command successful and CBM	
	storage:	
	+CMGR:	
	<stat>,<sn>,<mid>,<dcs>,<page>,<pages><cr><lf><data></data></lf></cr></pages></page></dcs></mid></sn></stat>	
	OK	
	f) If PDU mode (AT+CMGF=0) and Command successful:	
	+CMGR: <stat>,[<alpha>],<length><cr><lf><pdu></pdu></lf></cr></length></alpha></stat>	
	OK	



g)If failed:
+CMS ERROR: <err></err>

<stat></stat>	1. Text Mode:
	"REC UNREAD" - received unread message (i.e. new
	message)
	"REC READ" - received read message
	"STO UNSENT" - stored unsent message
	"STO SENT" - stored sent message
	"ALL" - all messages
	2. PDU Mode:
	0 – received unread message (i.e. new message)
	1 – received read message
	2 – stored unsent message
	3 – stored sent message
	4 – all messages
<index></index>	Integer type; value in the range of location numbers
	supported by the associated memory and start with zero.
<09>	Originating-Address, Address-Value field in string format;
	BCD numbers (or GSM 7 bit default alphabet characters) are
	converted to characters of the currently selected TE
	character set, type of address given by <tooa>.</tooa>
<pid></pid>	Protocol Identifier
	GSM 03.40 TP-Protocol-Identifier in integer format
	0255
<alpha></alpha>	String type alphanumeric representation of <da> or <oa></oa></da>
	corresponding to the entry found in MT phonebook;
	implementation of this feature is manufacturer specific; used
	character set should be the one selected with command
	Select TE
	Character Set AT+CSCS.
<dcs></dcs>	Depending on the command or result code: SMS Data
	Coding Scheme (default 0), or Cell Broadcast Data Coding
	Scheme in integer format.
<sca></sca>	RP SC address Address-Value field in string format; BCD
	numbers (or GSM 7 bit default alphabet characters) are
	converted to characters of the currently selected TE
	character set, type of address given by <tosca>.</tosca>
<tossa></tossa>	RP SC address Address-Value field in string format; BCD
<tosca></tosca>	· · · · · · · · · · · · · · · · · · ·



	converted to characters of the currently selected TE character set, type of address given by <tosca>.</tosca>
<scts></scts>	TP-Service-Centre-Time-Stamp in time-string format (refer <dt>).</dt>
<da></da>	Destination-Address, Address-Value field in string format; BCD numbers (or GSM 7 bit default alphabet characters) are converted to characters of the currently selected TE character set, type of address given by <toda>.</toda>
<tooa></tooa>	TP-Originating-Address, Type-of-Address octet in integer format. (default refer <toda>).</toda>
<toda></toda>	TP-Destination-Address, Type-of-Address octet in integer format. (when first character of <da> is + (IRA 43) default is 145, otherwise default is 129). The range of value is from 128 to 255.</da>
<length></length>	Integer type value indicating in the text mode (AT+CMGF=1) the length of the message body <data> in characters; or in PDU mode (AT+CMGF=0), the length of the actual TP data unit in octets. (i.e.the RP layer SMSC address octets are not counted in the length)</data>
<data></data>	In the case of SMS: TP-User-Data in text mode responses; format: 1. If <dcs> indicates that GSM 7 bit default alphabet is used and <fo> indicates that TP-User-Data-Header-Indication is not set: a. If TE character set other than "HEX": ME/TA converts GSM alphabet into current TE character set. b. If TE character set is "HEX": ME/TA converts each 7-bit character of GSM 7 bit default alphabet into two IRA character long hexadecimal numbers. (e.g. character (GSM 7 bit default alphabet 23) is presented as 17 (IRA 49 and 55)) 2. If <dcs> indicates that 8-bit or UCS2 data coding scheme is used, or <fo> indicates that TP-User-Data-Header-Indication is set: ME/TA converts each 8-bit octet into two IRA character long hexadecimal numbers. (e.g. octet with integer value 42 ispresented to TE as two characters 2A (IRA 50 and 65)) 3. If <dcs> indicates that GSM 7 bit default alphabet is used: a. If TE character set other than "HEX": ME/TA converts GSM alphabet into current TE character set. b. If TE character set is "HEX": ME/TA converts each 7-bit character of the GSM 7 bit default alphabet into two IRA character long hexadecimal numbers. 4. If <dcs> indicates that 8-bit or UCS2 data coding scheme is used: ME/TA converts each 8-bit octet into two IRA</dcs></dcs></fo></dcs></fo></dcs>



	character long hexadecimal numbers.
<fo></fo>	Depending on the command or result code: first octet of GSM 03.40 SMS-DELIVER, SMS-SUBMIT (default 17),
	SMS-STATUS-REPORT, or SMS-COMMAND (default 2) in
	integer format. SMS status report is supported under text
	mode if <fo> is set to 49.</fo>
<vp></vp>	Depending on SMS-SUBMIT <fo> setting: TP-Validity-</fo>
	Period either in integer format (default 167) or in time-string
	format (refer <dt>).</dt>
<mr></mr>	Message Reference
	GSM 03.40 TP-Message-Reference in integer format.
<ra></ra>	Recipient Address
	GSM 03.40 TP-Recipient-Address Address-Value field in
	string format;BCD numbers (or GSM default alphabet
	characters) are converted to characters of the currently
	selected TE character set(refer to command AT+CSCS);type
	of address given by <tora></tora>
<tora></tora>	Type of Recipient Address
	GSM 04.11 TP-Recipient-Address Type-of-Address octet in
	integer format (default refer <toda>)</toda>
<dt></dt>	Discharge Time
	GSM 03.40 TP-Discharge-Time in time-string
	format: "yy/MM/dd,hh:mm:ss+zz ",where characters
	indicate year
	(two last digits),month,day,hour,minutes,seconds and time
	zone.
<st></st>	Status
	GSM 03.40 TP-Status in integer format
	0255
<ct></ct>	Command Type
	GSM 03.40 TP-Command-Type in integer format
	0255
<sn></sn>	Serial Number
	GSM 03.41 CBM Serial Number in integer forma
<mn></mn>	Message Number
	GSM 03.40 TP-Message-Number in integer format
<mid></mid>	Message Identifier
	GSM 03.41 CBM Message Identifier in integer format
<page></page>	Page Parameter
	GSM 03.41 CBM Page Parameter bits 4-7 in integer format
<pages></pages>	Page Parameter
	GSM 03.41 CBM Page Parameter bits 0-3 in integer format
<pdu></pdu>	In the case of SMS: SC address followed by TPDU in



hexadecimal format: ME/TA converts each octet of TP data
unit into two IRA character long hexadecimal numbers. (e.g.
octet with integer value 42 is presented to TE as two
characters 2A (IRA 50 and 65)).

AT+CMGR=1

+CMGR: "STO UNSENT" ," +10011" ,,145,17,0,0,167," +8613800100500" ,145,11

Hello World

4.5 AT+CMGS Send message

This command is used to send message from a TE to the network (SMS-SUBMIT).

AT+CMGS Send message		
Test Command	Response	
AT+CMGS=?	OK	
Write Command	Response	
If text mode (AT+CMGF=1):	a) If sending successfully:	
AT+CMGS= <da>[,<toda>]<cr>T</cr></toda></da>	+CMGS: <mr>[,<time_stamp>]</time_stamp></mr>	
ext is entered.	OK	
<ctrl-z esc=""></ctrl-z>	b) If cancel sending:	
If PDU mode(AT+CMGF=0):	ОК	
AT+CMGS= <length><cr></cr></length>	c) If sending fails:	
PDU is entered	ERROR	
<ctrl-z esc=""></ctrl-z>	d) If sending fails:	
	+CMS ERROR: <err></err>	

<da></da>	Destination-Address, Address-Value field in string format;
	BCD numbers (or GSM 7 bit default alphabet characters) are
	converted to characters of the currently selected TE
	character set, type of address given by <toda>.</toda>
<toda></toda>	TP-Destination-Address, Type-of-Address octet in integer
	format. (when first character of <da> is + (IRA 43) default is</da>
	145, otherwise default is 129). The range of value is from 128
	to 255.
<length></length>	integer type value indicating in the text mode (AT+CMGF=1)
	the length of the message body <data> > (or <cdata>) in</cdata></data>
	characters; or in PDU mode (AT+CMGF=0), the length of the
	actual TP data unit in octets. (i.e. the RP layer SMSC address
	octets are not counted in the length)
<mr></mr>	Message Reference



GSM 03.40 TP-Message-Reference in integer format.

Example

AT+CMGS=" 13012832788" <CR>(TEXT MODE)
> ABCD<ctrl-Z/ESC>
+CMGS: 46
OK

NOTE: In text mode, the maximum length of an SMS depends on the used coding scheme: It is 160 characters if the 7 bit GSM coding scheme is used.

4.6 AT+CMGD Delete message

This command is used to delete message from preferred message storage <mem1> location <index>. If <delflag> is present and not set to 0 then the ME shall ignore <index> and follow the rules for <delflag> shown below.

AT+CMGD Delete message	
Test Command	Response
AT+CMGD=?	+CMGD: (list of supported <index>s)[,(list of</index>
	supported
	<delflag>s)]</delflag>
	OK
Write Command	Response
AT+CMGD= <index>[,<delflag>]</delflag></index>	a)
	OK
	b) If failed:
	ERROR
	c) If failed:
	+CMS ERROR: <err></err>

<index></index>	Integer type; value in the range of location numbers
	supported by the associated memory and start with zero.
<delflag></delflag>	0 – (or omitted) Delete the message specified in <index>.</index>
	1 – Delete all read messages from preferred message
	storage, leaving unread messages and stored mobile
	originated messages (whether sent or not) untouched.
	2 – Delete all read messages from preferred message
	storage and sent mobile originated messages, leaving
	unread messages and unsent mobile originated
	messages untouched.
	3 – Delete all read messages from preferred message



storage, sent and unsent mobile originated messages
leaving unread messages untouched.
4 – Delete all messages from preferred message storage
including unread messages.

AT+CMGD=1 OK

NOTE: If set <delflag>=1, 2, 3 or 4, <index> is omitted, such as AT+CMGD=,1.

5. AT Commands for TTS

5.1 Overview of AT Commands for TTS

Command	Description
AT+CDTAM	TTS play path, local or remote
AT+CTTS	TTS operation, play or stop
AT+CTTSPARAM	Set TTS Parameters

5.2 AT+CDTAM TTS play path, local or remote

AT+CDTAM TTS play path, local or remote	
Test Command	Response
AT+CDTAM=?	+CDTAM: (0-1)
	OK
Read Command	Response
AT+CDTAM?	+CDTAM: <status></status>
	ОК
Write Command	Response
AT+CDTAM= <mode></mode>	+CDTAM:
	OK
	or
	ERROR
Parameter Saving Mode	-
Maximum Response Time	-



Defined Values

Indicate play path, play TTS to local or play to remote.
0 – Local path
0 – Local path 1 – Remote path
Set TTS play path, local or remote. Default value is 0.
0 – Local path
0 – Local path 1 – Remote path

Example

AT+CDTAM=1		
+CDTAM:		
OK		

5.3 AT+CTTS TTS operation, play or stop

AT+CTTS TTS operation, play of	or stop
Test Command	Response
AT+CTTS=?	OK
Read Command	Response
AT+CTTS?	+CTTS: <status></status>
	OK
Write Command	Response
AT+CTTS= <mode>[,<text>]</text></mode>	If <mode>is 0, then <text> is not required. When TTS is</text></mode>
	playing,
	return:
	+CTTS: 0
	OK
	If <mode>is 0, then <text> is not required. When TTS is</text></mode>
	not playing,
	return:
	OK
	If <mode>is 1 or 2, then <text> is must be required.</text></mode>
	return:
	OK
	+CTTS: 0
	or
	ERROR
Write Command	Response
AT+CTTS= <mode>[,<text>][,</text></mode>	If <mode> is 3 or 4, then <text> and <filename> are</filename></text></mode>
<filename>]</filename>	must be
	required. return:
	OK



	+CTTS: 0
	or
	ERROR
Parameter Saving Mode	-
Maximum Response Time	-

Defined Values

Definica values	
<status></status>	Indicate playing thread status. Default value is 0
	0 – NO_WORKING
	1 – PLAY_WAV_WORKING
	2 – AMR_WORKING
	3 – MP3_WORKING
	4 – AAC_WORKING
	5 – WAV_WORKING
	6 – TTS_WORKING
	8 – CREC_WORKING
<mode></mode>	Stop or play TTS.
	0 – Stop TTS
	1 – <text> is in UCS2 coding format, Start to synth and play</text>
	2 – <text> is in ASCII coding format for English, Chinese text</text>
	is in GBK coding format. Start to synth and play
	3 – <text> is in ASCII coding format for English, Chinese text</text>
	is in GBK coding format. Start to synth and play, and save
	pcm data as wav file.
	4 – <text> is in UCSII coding format. Start to synth and play,</text>
	and save pcm data as wav file.
<filename></filename>	Location and filename for wav file

NOTE:

* <text>, which is synthetized to speed to be played, maximum data length is 512 bytes. (including

"")

<filename>,The file should be put into the "E:/filename.wav" . Maximum filename length is 240 bytes. (including "")

 \divideontimes When <text> is in UCS2 coding format, maximum data length is 510 bytes. (including

""),because every four characters correspond to one Chinese character.

Example

AT+CTTS=1,"6B228FCE4F7F75288BED97F3540862107CFB7EDF" OK



+CTTS: 0

AT+CTTS=3," 欢迎使用语音合成系统","E:/tts.wav"

OK

+CTTS: 0 AT+CTTS=0

OK

+CTTS: 0

5.4 AT+CTTSPARAM Set TTS Parameters

AT+CTTSPARAM Set TTS Parameters	
Test Command	Response
AT+CTTSPARAM=?	+CTTSPARAM: (0-2),(0-3),(0-3),(0-2),(0-2)
	OK
Read Command	Response
AT+CTTSPARAM?	+CTTS:
	<volume>,<sysvolume>,<digitmode>,<pitch>,<speed></speed></pitch></digitmode></sysvolume></volume>
	ОК
Write Command	Response
AT+CTTSPARAM= <volume></volume>	OK
[, <sysvolume>[,<digitmode< td=""><td>or</td></digitmode<></sysvolume>	or
>[, <pitch>[,<speed>]]]</speed></pitch>	ERROR
Parameter Saving Mode	-
Maximum Response Time	-

<volume></volume>	TTS Speech Volume, default: 2.
	0 – The mix volume
	1 – The normal volume
	2 – The max volume
<sysvolume></sysvolume>	The module system volume, default: 3.
	0 – The mix system volume
	1 – The small system volume
	2 – The normal system volume
	3 – The max system volume
<digitmode></digitmode>	The digit read mode, default: 0
	0 – Auto read digit based on number rule first.
	1 – Auto read digit bases on telegram rule first.
	2 – Read digit based on telegram rule.
	3 – Read digit based on number rule.
<pitch></pitch>	The voice tone, default: 1



	0 – The mix voice tone.
	1 – The normal voice tone.
	2 – The max voice tone.
<speed></speed>	The voice speed, default: 1
	0 – The mix speed
	1 – The normal speed
	2 – The max speed

NOTE:<sysvolume>, It takes no effect to set <sysvolume>,reserved at present

Example

AT+CTTSPARAM=1,3,0,1,1 OK

6. Summary of CME ERROR codes

This result code is similar to the regular ERROR result code. The format of <err> can be ethier numeric or verbose string, by setting AT+CMEE command.

<pre><err> of numeric format 0</err></pre>
1 no connection to phone 2 phone adaptor link reserved 3 operation not allowed 4 operation not supported 5 PH-SIM PIN required 6 PH-FSIM PIN required
phone adaptor link reserved phone adaptor link reserved poperation not allowed peration not supported PH-SIM PIN required PH-FSIM PIN required
3 operation not allowed 4 operation not supported 5 PH-SIM PIN required 6 PH-FSIM PIN required
4 operation not supported 5 PH-SIM PIN required 6 PH-FSIM PIN required
5 PH-SIM PIN required 6 PH-FSIM PIN required
6 PH-FSIM PIN required
'
7 PH-FSIM PUK required
10 SIM not inserted
11 SIM PIN required
12 SIM PUK required
13 SIM failure
14 SIM busy
15 SIM wrong
incorrect password
17 SIM PIN2 required
18 SIM PUK2 required
20 memory full
21 invalid index
22 not found
23 memory failure
24 text string too long
25 invalid characters in text string



invalid characters in dial string no network service network imeout network on allowed – emergency calls only network personalization PIN required network personalization PIN required network subset personalization PIN required service provider personalization PIN required service provider personalization PIN required corporate personalization PIN required nou Unknown lllegal message llagal message llag	26	dial string too long
30 no network service 31 network timeout 32 network not allowed – emergency calls only 40 network personalization PIN required 41 network personalization PIN required 42 network subset personalization PIN required 43 network subset personalization PIN required 44 service provider personalization PIN required 45 service provider personalization PIN required 46 corporate personalization PIN required 47 corporate personalization PIN required 48 lllegal message 100 Unknown 103 lllegal message 106 lllegal ME 107 GPRS services not allowed 111 PLMN not allowed 112 Location area not allowed 113 Roaming not allowed in this location area 132 service option not supported 133 requested service option not subscribed 134 service option temporarily out of order 148 unspecified GPRS error 149 PDP authentication failure 150 invalid mobile class 257 network rejected request 258 retry operation 169 deflected to own number 260 deflected to own number 261 unknown subscriber 262 service not available 263 unknown class specified 264 unknown network message 273 minimum TFTS per PDP address violated 274 TFT precedence index not unique 275 Invalid parameter combination 260 "CME ERROR" codes of FTP 201 Unknown error for FTP 202 FTP task is busy 203 Failed to resolve server address		
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201 Unknown error for FTP 202 FTP task is busy 203 Failed to resolve server address		
202 FTP task is busy 203 Failed to resolve server address		
203 Failed to resolve server address	201	Unknown error for FTP
	202	FTP task is busy
204 FTP timeout		
	204	FTP timeout



205	Failed to read file
206	Failed to write file
207	It's not allowed in current state
208	Failed to login
209	Failed to logout
210	Failed to transfer data
211	FTP command rejected by server
212	Memory error
213	Invalid parameter
214	Network error

AT+CPIN=" 1234" ," 1234" +CME ERROR: incorrect password

7. Summary of CMS ERROR codes

Final result code +CMS ERROR: <err> indicates an error related to mobile equipment or network. The operation is simialer to ERROR result code. None of the following commands in the same command line is executed. Neither ERROR nor OK result code shall be returned. ERROR is returned normally when error is related to syntax or invalid parameters. The format of <err> can be either numeric or verbose. This is set with command AT+CMEE.

<err> of numeric format</err>	<err> of verbose format</err>
300	ME failure
301	SMS service of ME reserved
302	Operation not allowed
303	Operation not supported
304	Invalid PDU mode parameter
305	Invalid text mode parameter
310	SIM not inserted
311	SIM PIN required
312	PH-SIM PIN required
313	SIM failure
314	SIM busy
315	SIM wrong
316	SIM PUK required
317	SIM PIN2 required
318	SIM PUK2 required
320	Memory failure
321	Invalid memory index
322	Memory full



330	SMSC address unknown
331	No network service
332	Network timeout
340	NO +CNMAACK EXPECTED
341	Buffer overflow
342	SMS size more than expected
500	Unknown error

AT+CMGS=02112345678

+CMS ERROR: 304

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