

# 12 Sony CMD-Z5 / Z18 / Z28 extended commands

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## Foreword

This document is designed as addendum to 3GPP TS 27.007 version 4.2.0 Release 4 (ETSI TS 127 007 V4.2.0 (2001-07) Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); AT command set for User Equipment (UE)) which can be downloaded free of charge at:

[http://pda.etsi.org/pda/home.asp?wiki\\_id=14426](http://pda.etsi.org/pda/home.asp?wiki_id=14426)

It is recommended to read and understand most of its context. All used references and abbreviations are defined there.

The audience should be application developers who want to add this functionality to a current software product or create a new application. End consumers should have a look at the "Z5 Manager":

<http://www.cmd-z5.com/z5mgr.htm>

The content of the current document has not been published by Sony Ericsson Mobile Communications. It is the result of intense research of several private individuals at:

[http://www.handykult.de/cgi-bin/ultimatebb.cgi?ubb=get\\_topic&f=22&t=000547](http://www.handykult.de/cgi-bin/ultimatebb.cgi?ubb=get_topic&f=22&t=000547)

A lot of aspects are still unknown and unclear. Even the here described syntax could be **totally** wrong. But there are no further commands (calendar or ringtones). If you have additional information useful for the purpose of this document please contact one of the authors at:

<http://www.traud.de/gsm/sony.htm>

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But anyway: Please Sony finish this *great* AT command interface (it is not complete and very unstable)!

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## 12.1 Read complex entry phonebook -SCER

Command	Possible response(s)
-SCER=<index>	-SCER: <index>, <name>, <group>, "TELNO", <icon1>, <number1>, "TELNO", [<icon2>], [<number2>], "TELNO", [<icon3>], [<number3>], "CUSTOM", [<icon4>], [<text1>], "CUSTOM", [<icon5>], [<text2>]  <b>if empty / invalid:</b> +CME ERROR: 21
-SCER=?	-SCER: (list of supported <index>s), <used>, <tlength>, (list of all <group>s... <i>unknown</i> )  <b>Warning:</b> This command reboots the phone.

### Description

Execution command returns the phonebook entry in location number <index>. <index>=1 is the first entry within "ME" (+CPBR), <index>=501 is the first entry on "SM" (+CPBR). The maximum size of <index> is 500 plus size of "SM". Starting with <index>=510 there is no 1:1 correlation to +CPBR anymore. Group is empty (" ") if entry is within no group or within a group without a name. Range queries are not possible, load each <index> individually.

Unused <index> returns +CME ERROR: 21.

### Defined values

<index>: integer type value in the range of location numbers of phonebook memory

<name>: string type field of maximum length <tlength>;  
character set: "GSM" (3GPP TS 23.038 [25]) with complete extension table  
only the "@" is on 0x8F instead of 0x00.

<group>: string type field of maximum length <tlength>;  
character set: "GSM" (3GPP TS 23.038 [25]) with complete extension table  
only the "@" is on 0x8F instead of 0x00.

<icon1>, <icon2>, <icon3>: string type field of maximum of seven different icon names;  
character set: UTF-8 (Unicode)  
Note: This field varies with the language setting within the phone, for example:  
English: Phone, Home, Office, Mobile, Fax, Pager, Etc...  
German: Telefon, Heim, Büro, Mobil, Fax, Funkrufempfänger, Etc...  
Early firmwares do have slightly other icon names.

<icon4>, <icon5>: string type field of maximum of 48 different icon names;  
character set: UTF-8 (Unicode)  
Note: This field varies with the language setting within the phone.

<numberx>: string type phone number. International numbers do have a "+" in front.

<textx>: string type field of maximum length 120;  
character set: "GSM" (3GPP TS 23.038 [25]) with complete extension table  
only the "@" is on 0x8F instead of 0x00.

<used>: integer type value indicating the number of used locations in phonebook memory

<tlength>: integer type value: 20

## Limitations

You can only issue around 405 times `-SCER=<index>`. If you do more the phone will reboot. To get again 405 times you have to switch off and on the mobile (not available via AT commands).

## Examples

This is my personal way of loading the complex entry phonebook to avoid reboots of the phone.

Loading the "ME" phonebook (`-SCER equals +CPBR`) tells you which `<index>` are used and have to be queried via `-SCER`

```
AT+CPBS="ME"
AT+CPBR=1,500                                (has to be issued separately)
for( index=1; index <= 500; index++)
    if (<index> isUsed)
        AT-SCER=<index>
```

Now load the "SM" phonebook. Complex entries on "SM" use up to three entries on "SM". Consequently you have to count down the numbers within a complex entry from the total "SM" (`SMcount`). First load entry 1-9 (called: Priority entries) which are the same `<index>` within the complex phonebook (`<index>=501..509`).

Illustration: I have a complex entry on `-SCER=501` with three numbers. `<number1>` is on "SM" `<index>=1`, the rest are at 12 and 15 (`+CPBR`). You get these numbers only via `-SCER=501`.

```
AT+CPBS="SM"
AT+CPBR=?                                    (has to be issued separately)
AT+CPBR=1,<maxSIMValue>
for( index=501; index <= 509; index++)
    if (<index> isUsed)                       (for Priority entries)
        AT-SCER=<index>
        SMcount - entries
```

For the rest of the "SM" you have to go one by one through the complex entry list, because you do not know which are used.

Illustration: I have an entry on "SM" `<index>=98` (`+CPBR`) but is reported on `-SCER=511`.

```
for( index=510; 0 < SMcount && index <= 500+<maxSIMValue>; index++)
    AT-SCER=<index>                           (for the rest of SM)
    SMcount - entries
```

## 12.2 Write complex entry phonebook -SCEW

Command	Possible response(s)
<code>-SCEW=[&lt;index&gt;],&lt;name&gt;,[&lt;group&gt;], "TELNO",[&lt;icon1&gt;],&lt;number1&gt; [, "TELNO",[&lt;icon2&gt;],&lt;number2&gt; [, "TELNO",[&lt;icon3&gt;],&lt;number3&gt;]]</code>	<b>if invalid:</b> <code>+CME ERROR: 21</code>
<code>-SCEW=?</code>	<code>-SCEW: (list of supported &lt;index&gt;s),&lt;used&gt;, &lt;tlength&gt;,(list of all &lt;group&gt;s...unknown</code>  <b>Warning:</b> This command reboots the phone.

### Description

Execution command writes a complex entry in location number `<index>`. Previous entry will be overwritten and as consequence the textfields get deleted. If `<index>` is left out, but complete first TELNO is given, entry is written to the first free location in the phonebook. Unknown `<group>` will be set to „no group“ status.

Unknown `<icon>` will be set to „Phone“.

Invalid `<index>` returns `+CME ERROR: 21`.

## Defined values

see chapter: 12.1 Read complex entry phonebook -SCER

## Limitations

If <index> isn't the first free location in the phonebook, you have to switch off and on the mobile (not available via AT commands) to see the entry within the mobile's man machine interface. Via AT interface the complex entry is always accessible.

Unfortunately there are several bugs, which prevent writing text fields. The AT command interface only listens to the first three "TELNO" / "CUSTOM" fields. And there is a problem within the interpretation of "CUSTOM" fields:

```
AT-SCEW=[<index>],<name>,[<group>],"TELNO",[<icon1>],<number1>,"CUSTOM",,, "CUSTOM",[<icon5>],<text2>
```

This writes the first number and the second text field. All other fields are deleted / empty. The first "CUSTOM" field is ignored but must be present.

## Examples

```
AT-SCEW=511,"Alex","Colleague","TELNO","Fax","+491234567","TELNO","Home","+49427948247"
```

Note: Previous information said to use +CPBW to create a new entry. This is not necessary and even does not work because <index> is ignored totally within +CPBW.

By the way Sony has no leading "+" within +CPBR/+CPBW with <type>=145.

## 12.3 Delete complex entry -SCED

Command	Possible response(s)
-SCED=<index>	<b>if empty/invalid:</b> <i>+CME ERROR: 21</i>
-SCED=?	-SCED: (list of supported <index>s),<used>,<tlength>, (list of all <group>s... <i>unknown</i> )  <b>Warning:</b> This command reboots the phone.

### Description

Action command deletes <index> of complex entry phonebook.

Unused <index> returns +CME ERROR: 21.

### Defined values

see chapter: 12.1 Read complex entry phonebook -SCER

### Limitations

n/a

### Examples

```
AT-SCED=1
```

(deletes first entry)

## 12.4 Read caller list entry -SCLR

Command	Possible response(s)
-SCLR=<storage>,<index>	<storage>,<index>,<numberx>,<name>,[<date>]  <b>if empty / invalid:</b> +CME ERROR: 21
-SCLR=?	-SCLR: (list of supported <storage>s)

### Description

Execution command returns the phonebook entry in location number <index> and phonebook <storage>. Values for <index> are the same as via +CPBR. Range queries are not possible, load each <index> individually. They include a time stamp if the call was issued / missed / received on Sony mobile. Numbers not known to the complex entry phonebook have an empty name (" "). Callers who do not transmit their number are listed with an empty number and name.

Unused <index> returns +CME ERROR: 21.

### Defined values

<storage>: standard phonebook memory storages "LD","MC","RC"  
values see chapter: 8.11 Select phonebook memory storage +CPBS  
<date>: "<dayNum>/<monthNum> <dayShortName> <hour24>:<minutes>"  
for rest see chapter: 12.1 Read complex entry phonebook -SCER

### Limitations

n/a

### Examples

AT-SCLR="LD",1  
"LD",1,"+499911","Mailbox","23/11 FR 14:44" (result)

## 12.5 Read general entry -SGER

Command	Possible response(s)
-SGER=<storage>,<index>	-SGER: <index>,<name>,<number1>  <b>if empty / invalid:</b> +CME ERROR: 21
-SGER=?	-SGER: (list of supported <storage>s)

### Description

Execution command returns the phonebook entry in location number <index> and phonebook <storage>. Values for <index> are the same as via +CPBR. Range queries are not possible, load each <index> individually.

Unused <index> returns +CME ERROR: 21.

### Defined values

<storage>: standard phonebook memory storages "SM","FD","ON","SD","ME"

values see chapter: 8.11 Select phonebook memory storage +CPBS  
 "SD" SIM Service Dialing list  
 for rest see chapter: 12.1 Read complex entry phonebook -SCER

### Limitations

Reason for implementation of this command is unknown.

### Examples

```
AT-SGER="SM",1
-SGER: 1,"Alex", "+499911" (result)
```

## 12.6 Write general entry -SGEW

Command	Possible response(s)
-SGEW=<storage>, <index>, <name>, <number1>	<b>if invalid:</b> +CME ERROR: 21
-SGEW=?	-SGEW: (list of supported <storage>s)

### Description

Execution command writes the phonebook entry in location number <index> and phonebook <storage>. If <index> was previous unused, it will be ignored by mobile and saved to the first free location, but not to the "SM" Priority entries. Values for <index> are the same as via +CPBW.

### Defined values

<storage>: standard phonebook memory storages "SM", "ON"  
 values see chapter: 8.11 Select phonebook memory storage +CPBS  
 for rest see chapter: 12.1 Read complex entry phonebook -SCER

### Limitations

Reason for implementation of this command is unknown.

### Examples

```
AT-SGEW="SM",1,"Alex", "+499911" (writes first entry on "SM")
```

## 12.7 Delete general entry -SGED

Command	Possible response(s)
-SGED=<storage>, <index>	<b>if invalid:</b> +CME ERROR: 21
-SGED=?	-SGED: (list of supported <storage>s)

### Description

Action command deletes the phonebook entry in location number <index> and phonebook <storage>. Values for <index> are the same as via +CPBW.

### Defined values

<storage>: standard phonebook memory storages "SM", "ON"  
 values see chapter: 8.11 Select phonebook memory storage +CPBS  
 for rest see chapter: 12.1 Read complex entry phonebook -SCER

### Limitations

Reason for implementation of this command is unknown.

### Examples

AT-SGED="SM",1 (deletes first entry on "SM")

## 12.8 Software Modem -SWM

Command	Possible response(s)
-SWM=<mode>	
-SWM=?	-SWM: <mode>
-SWM=?	-SWM: (list of supported <mode>s)

### Description

Syntax seems to be fully understood – seems to be a binary interface, could be as powerful as Nokia's FBUS.  
 Please help...

### Defined values

<mode>:  $\frac{0}{1}$  off  
 seems to activate the binary interface for the EasyCom (QN-2EC) Software Fax V.42 (MNP) ?

### Limitations

n/a

### Examples

AT-SWM=1

## 12.9 Read ring melody -SRMR

Command	Possible response(s)
-SRMR=[<n0>],0 or -SRMR=[<n1>],1	-SRMR:
-SRMR=?	-SRMR: (list of supported <n0>s), (0), (list of supported <n1>s), (1)

### Description

Syntax seems to be fully understood – but you get every time nothing else back than "-SRMR: ".

### Defined values

<n0>: integer type value in the range of 1-25; test command returns "1-20"  
 <n1>: integer type value in the range of 1-5; test command returns "1,5"

**Limitations**

n/a

**Examples**

AT-SRMR=25,0  
 AT-SRMR=5,1  
 AT-SRMR=, ,

## 12.10 Store ring melody -SRMS

Command	Possible response(s)
-SRMS=<n>,<string1> [,<string2>,... <i>unknown</i> ]	OK
-SRMS?	OK
-SRMS=?	-SRMS: (list of supported <n>s) , (1-32) , (5-8) , (25-900)

**Description**

Syntax **not** fully understood. Returns only "OK". Other syntax returns "ERROR" or reboots. Please help...

**Defined values**

<n>: integer type value in the range of 1-5  
 <string1>: string type field of an unknown maximum length  
 ...*unknown*

**Limitations**

Reboots the phone very often. AT interface does not like empty strings or left out strings everywhere.

**Examples**

n/a

## 12.11 Unknown -SMEL

Command	Possible response(s)
-SMEL=<stringx>,<indexx>,<indexx> [,... <i>unknown</i> ]	<i>unknown</i>
-SMEL?	-SMEL: "DxM" , "...not displayable... ^L" , 0
-SMEL=?	-SMEL: (1-5) , (1-32) , (50-255) , (1-100)

**Description**

Syntax **not** fully understood. Other syntax at the first three fields return "ERROR" , otherwise I get a reboot which looks like good syntax. Please help...

**Defined values**

<stringx>: string type field of an unknown maximum length  
 <indexx>: integer type value in an unknown range

*...unknown*

**Limitations**

Reboots the phone very often. AT interface does not like empty strings or left out strings everywhere.

**Examples**

n/a

## 12.12 Complete unknown commands

- SCT
- STR
- SWT
- SCES
- SCFV
- SCLV
- SGES
- SGFV

## 12.13 +C command responses

'According to ITU-T V.25ter (07/97):

'only the commands which effect GSM/UMTS

'6.1.8 ISO system global object identification

AT+GOI

ERROR

'6.1.9 Overall capabilities of TA

AT+GCAP

+GCAP: +CS,+GS,+IS

'6.1.10 Selects the country of installation

AT+GCI=?

ERROR

'6.2.10 Fixed TE data rate

AT+IPR=?

+IPR:

(9600,19200,38400,57600,115200),(0,9600,19200,38400,57600,115200)

AT+IPR?

+IPR: 19200

'6.2.11 Character framing

AT+ICF=?

ERROR

AT+ICF?

,

'According to 3GPP TS 27.007 version 3.7.0:

'5.1 Request manufacturer identification

AT+GMI

SONY

AT+CGMI

SONY

'5.2 Request model identification

AT+GMM

CMD-Z5

AT+CGMM

CMD-Z5

'5.3 Request revision identification

AT+GMR

435\_CPP\_6.6.0 0204101 16:18:00

AT+CGMR

435\_CPP\_6.6.0 0204101 16:18:00

'5.4 Request product serial number identification

'not used here, for privacy reasons

AT+CGSN=?

ERROR

'5.5 Select TE character set

'BUG: ISO8859-1 is used with +C commands but chars on "GSM" extension table are represented as there.

'Example: "^" gets char(27) + char(20)

AT+CSCS=?

ERROR

ERROR

'6.2.12 Flow control

AT+IFC=?

+IFC: (0),(0,1)

AT+IFC?

+IFC: 0,1

'6.2.13 Data rate

AT+ILRR=?

ERROR

AT+ILRR?

ERROR

,

'According to PCCA STD-101:

'Select wireless network

AT+WS46=?

ERROR

AT+WS46?

ERROR

AT+CSCS?

ERROR

'5.6 Request international mobile subscriber identity

'not used here, for privacy reasons

AT+CIMI=?

ERROR

'5.7 Multiplexing mode

AT+CMUX=?

ERROR

AT+CMUX?

ERROR

'6.1 Select type of address

AT+CSTA=?

ERROR

AT+CSTA?

ERROR

'6.4 Call mode

AT+CMOD=?

ERROR

AT+CMOD?

ERROR

'6.5 Hangup call

AT+CHUP=?

ERROR

'6.7 Select bearer service type

AT+CBST=?  
+CBST: (7,14,71,75),(0),(1)

AT+CBST?  
+CBST: 7,0,1

'6.8 Radio link protocol  
AT+CRLP=?  
+CRLP: (0-61),(0-61),(380-1000),(0-16),(0),( )

AT+CRLP?  
+CRLP: 61,61,480,6,0

'6.9 Service reporting control  
AT+CR=?  
ERROR

AT+CR?  
ERROR

'6.10 Extended error report  
AT+CEER=?  
ERROR

'6.11 Cellular result codes  
AT+CRC=?  
+CRC: (0,1)

AT+CRC?  
+CRC: 0

'6.12 HSCSD device parameters  
AT+CHSD=?  
ERROR

AT+CHSD  
ERROR

'6.13 HSCSD transparent call configuration  
AT+CHST=?  
ERROR

AT+CHST?  
ERROR

'6.14 HSCSD non-transparent call configuration  
AT+CHSN=?  
ERROR

AT+CHSN?  
ERROR

'6.15 HSCSD current call parameters  
AT+CHSC=?  
ERROR

AT+CHSC?  
ERROR

'6.16 HSCSD parameters report  
AT+CHSR=?  
ERROR

AT+CHSR?  
ERROR

'6.17 HSCSD automatic user initiated upgrading  
AT+CHSU=?

ERROR

AT+CHSU?  
ERROR

'6.18 HSCSD non-transparent asymmetry configuration  
AT+CHSA=?  
ERROR

AT+CHSA?  
ERROR

'6.19 Single numbering scheme  
AT+CSNS=?  
ERROR

AT+CSNS?  
ERROR

'6.20 Voice Hangup Control  
AT+CVHU=?  
ERROR

AT+CVHU?  
ERROR

'6.21 V.120 rate adaption protocol  
AT+CV120=?  
ERROR

AT+CV120?  
ERROR

'6.22 Settings date format  
AT+CSDF=?  
ERROR

AT+CSDF?  
ERROR

'6.23 Silence Command  
AT+CSIL=?  
ERROR

AT+CSIL?  
ERROR

'6.24 Settings time format  
AT+CSTF=?  
ERROR

AT+CSTF?  
ERROR

'7.1 Subscriber number  
'not used here, for privacy reasons  
AT+CNUM=?  
OK

'7.2 Network registration  
'not used here, for privacy reasons  
AT+CREG=?  
+CREG: (0-2)

'7.3 Operator selection  
'not used here, for privacy reasons  
AT+COPS=?  
ERROR

## '7.4 Facility lock

AT+CLCK=?  
 +CLCK:  
 ( "AO" , "OI" , "OX" , "AI" , "IR" , "AB" , "AG"  
 , "AC" )

## '7.5 Change password

AT+CPWD=?  
 ERROR

## '7.6 Calling line identification presentation

AT+CLIP=?  
 +CLIP: ( 0-1 )

## '7.7 Calling line identification restriction

AT+CLIR=?  
 ERROR

## '7.8 Connected line identification presentation

AT+COLP=?  
 ERROR

## '7.9 Called line identification presentation

AT+CDIP=?  
 ERROR

## '7.10 Closed user group

AT+CCUG=?  
 ERROR

## '7.11 Call forwarding number and conditions

AT+CCFC=?  
 ERROR

## '7.12 Call waiting

AT+CCWA=?  
 ERROR

AT+CCWA?  
 ERROR

## '7.13 Call related supplementary services

AT+CHLD=?  
 +CHLD: ( 0 , 1 , 1x , 2 , 2x , 3 )

## '7.14 Call deflection

AT+CTFR=?  
 ERROR

## '7.15 Unstructured supplementary service data

AT+CUSD=?  
 ERROR

AT+CUSD?  
 ERROR

## '7.16 Advice of Charge

AT+CAOC=?  
 ERROR

AT+CAOC?  
 ERROR

## '7.17 Supplementary service notifications

AT+CSSN=?  
 ERROR

AT+CSSN?

ERROR

## '7.18 List current calls

'not used here, for privacy reasons  
 AT+CLCC=?  
 ERROR

## '7.19 Preferred operator list

'not used here, for privacy reasons  
 AT+CPOL=?  
 ERROR

## '7.20 Read operator names

'not used here, for privacy reasons  
 AT+COPN=?  
 ERROR

## '7.21 eMLPP Priority Registration and Interrogation

'not used here, for privacy reasons  
 AT+CAEMLPP=?  
 ERROR

## '8.1 Phone activity status

AT+CPAS=?  
 +CPAS: ( 0 , 2-5 )

## '8.2 Set phone functionality

AT+CFUN=?  
 ERROR

AT+CFUN?  
 ERROR

## '8.3 Enter PIN

AT+CPIN?  
 +CPIN: READY

## '8.4 Battery charge

AT+CBC=?  
 +CBC: ( 0 , 1 , 2 ) , ( 0-100 )

## '8.5 Signal quality

AT+CSQ=?  
 +CSQ: ( 2-31 , 99 ) , ( 0-7 )

## '8.6 Mobile Equipment control mode

AT+CMEC=?  
 ERROR

AT+CMEC?  
 ERROR

## '8.7 Keypad control

AT+CKPD=?  
 ERROR

## '8.8 Display control

AT+CDIS=?  
 ERROR

## '8.9 Indicator control

AT+CIND=?  
 ERROR

## '8.10 Mobile Equipment event reporting

AT+CMER=?  
 ERROR

AT+CMER?  
ERROR

'8.11 Select phonebook memory storage

AT+CPBS=?  
+CPBS:  
( "SM", "ME", "FD", "ON", "LD", "MC", "RC"  
")

AT+CPBS?  
+CPBS: "SM", 20, 100

'8.12 Read phonebook entries

AT+CPBR=?  
+CPBR: (1-100), 40, 17

AT+CPBR?  
ERROR

'8.13 Find phonebook entries

AT+CPBF=?  
+CPBF: 40, 17

'8.14 Write phonebook entry

AT+CPBW=?  
+CPBW: (1-100), 40, (129, 145), 17

'8.15 Clock  
AT+CCLK=?  
ERROR

AT+CCLK?  
ERROR

'8.16 Alarm

AT+CALA=?  
ERROR

AT+CALA?  
ERROR

'8.17 Generic SIM access

AT+CSIM=?  
ERROR

'8.18 Restricted SIM access

AT+CRSM=?  
ERROR

'8.19 Secure control command

AT+CSCC=?  
ERROR

'8.20 Alert sound mode

AT+CALM=?  
ERROR

AT+CALM?  
ERROR

'8.21 Ringer sound level

AT+CRSL=?  
ERROR

'8.22 Vibrator mode

AT+CVIB=?  
ERROR

'8.23 Loudspeaker volume level

AT+CLVL=?  
ERROR

'8.24 Mute control

AT+CMUT=?  
ERROR

'8.25 Accumulated call meter

AT+CACM=?  
ERROR

'8.26 Accumulated call meter maximum

AT+CAMM=?  
ERROR

'8.27 Price per unit and currency table

AT+CPUC=?  
ERROR

'8.28 Call Meter maximum event

AT+CCWE=?  
ERROR

'8.29 Power class

AT+CPWC=?  
ERROR

AT+CPWC?  
ERROR

'8.30 Set Language

AT+CLAN=?  
ERROR

'8.31 Language Event

AT+CLAE=?  
ERROR

AT+CLAE?  
ERROR

'8.32 Set Greeting Text

AT+CSGT=?  
ERROR

'8.33 Set Voice Mail Number

AT+CSVM=?  
ERROR

'8.34 Ring Melody Playback

AT+CRMP=?  
OK

'8.35 Master Reset

AT+CMAR=?  
ERROR

'8.36 List all available AT commands

AT+CLAC

+C

+CLAC

D

O

A

D

E

H

I

Q

S  
V  
Z  
&F  
&W  
+CGMI  
+CGMM  
+CGMR  
+CGSN  
+CHLD  
+CRC  
+CLIP  
+CBC  
+CPBS  
+CPBR  
+CPBF  
+CPBW  
+CMEE  
+CSQ  
+CPIN  
+CPAS  
+CNUM  
+CLCK  
+CRMP  
+CRLP  
+CBST  
+CREG  
+VTS  
+VTD  
+CSCA  
+CMGL  
+CMGR  
+CMGS  
+CMGF  
+CSMS  
+CPMS  
+CMGW  
+CMGD  
+CNMI  
+GCAP  
+GMI  
+GMM  
+GMR  
+IPR  
+IFC

'8.37 Delete alarm  
AT+CALD=?  
ERROR

'8.38 Postpone or dismiss an alarm  
AT+CAPD=?  
ERROR

'8.39 Automatic Time Zone Update  
AT+CTZU=?  
ERROR

AT+CTZU?  
ERROR

'8.40 Time Zone Reporting  
AT+CTZR=?  
ERROR

AT+CTZR?  
ERROR

'8.41 Enter protocol mode  
AT+CPROT=?

ERROR

'9.1 Report Mobile Equipment error  
AT+CMEE=?  
+CMEE: (0-1)

'10.1.1 Define PDP Context  
AT+CGDCONT=?  
ERROR

'10.1.2 Define Secondary PDP Context  
AT+CGDSCONT=?  
ERROR

'10.1.3 Traffic Flow Template  
AT+CGTFT=?  
ERROR

'10.1.4 Quality of Service Profile (Requested)  
AT+CGQREQ=?  
ERROR

'10.1.5 Quality of Service Profile (Minimum acceptable)  
AT+CGQMIN=?  
ERROR

'10.1.6 3G Quality of Service Profile (Requested)  
AT+CGEQREQ=?  
ERROR

'10.1.7 3G Quality of Service Profile (Minimum acceptable)  
AT+CGEQMIN=?  
ERROR

'10.1.8 3G Quality of Service Profile (Negotiated)  
AT+CGEQNEG=?  
ERROR

'10.1.9 PS attach or detach  
AT+CGATT=?  
ERROR

'10.1.10 PDP context activate or deactivate  
AT+CGACT=?  
ERROR

'10.1.11 PDP Context Modify  
AT+CGCMOD=?  
ERROR

'10.1.12 Enter data state  
AT+CGDATA=?  
ERROR

'10.1.13 Configure local Octet Stream PAD parameters  
AT+CGCLOSP=?  
ERROR

'10.1.14 Show PDP address  
AT+CGPADDR=?  
ERROR

'10.1.15 Automatic response to a network request for PDP context activation  
AT+CGAUTO=?

ERROR

'10.1.16 Manual response to a network request for PDP context activation

AT+CGANS=?  
ERROR

'10.1.17 GPRS mobile station class

AT+CGCLASS=?  
ERROR

AT+CGCLASS?  
ERROR

'10.1.12 Configure local triple-X PAD parameters

AT+CGCLPAD=?  
ERROR

'10.1.18 Packet Domain event reporting

AT+CGEREP=?  
ERROR

'10.1.19 GPRS network registration status

AT+CGREG=?  
ERROR

'10.1.20 Select service for MO SMS messages

AT+CGSMS=?  
ERROR

'11.1.1 Accept an incoming Voice Group or Voice Broadcast Call

AT+CAJOIN=?  
ERROR

,

'According to 3GPP TS 27.005 version 3.1.0:

'3.2.1 Select Message Service

AT+CSMS=?  
+CSMS: ( 0 )

AT+CSMS?  
+CSMS: 0,1,1,0

'3.2.2 Preferred Message Storage

AT+CPMS=?  
+CPMS: ( "SM", "ME" ), ( "SM" ), ( " " )

AT+CPMS?  
+CPMS:  
"ME", 0, 11, "SM", 0, 12, "SM", 0, 0

'3.2.3 Message Format

AT+CMGF=?  
+CMGF: ( 0 )

AT+CMGF?  
+CMGF: 0

'3.2.4 Enter SMS Block Mode Protocol

AT+CESP=?  
ERROR

'3.3.1 Service Centre Address

AT+CSCA=?  
OK

'3.3.2 Set Text Mode Parameters

'11.1.2 Reject an incoming Voice Group or Voice Broadcast Call

AT+CAREJ=?  
ERROR

'11.1.3 Leave an ongoing Voice Group or Voice Broadcast Call

AT+CAHLD=?  
ERROR

'11.1.4 Talker Access for Voice Group Call

AT+CAPTT=?  
ERROR

'11.1.5 Voice Group Call Uplink Status Presentation

AT+CAULEV=?  
ERROR

'11.1.6 List current Voice Group and Voice Broadcast Calls

AT+CALCC=?  
ERROR

'11.1.7 Voice Group or Voice Broadcast Call State Attribute Presentation

AT+CACSP=?  
ERROR

'11.1.8 NCH Support Indication

AT+CANCHEV=?  
ERROR

AT+CSMP=?  
ERROR

AT+CSMP?  
ERROR

'3.3.3 Show Text Mode Parameters

AT+CSDH=?  
ERROR

AT+CSDH?  
ERROR

'3.3.4 Select Cell Broadcast Message Types

AT+CSCB=?  
ERROR

AT+CSCB?  
ERROR

'3.3.5 Save Settings

AT+CSAS=?  
ERROR

'3.3.6 Restore Settings

AT+CRES=?  
ERROR

'3.4.1 New Message Indications to TE

AT+CNMI=?

+CNMI: (0-3),(0-3),(0),(0),(0)

AT+CNMI?

+CNMI: 0,0,0,0,0

#### '3.5.4 Delete Message

AT+CMGD=?

OK

#### '3.5.6 More Messages to Send

AT+CMMS=?

ERROR

,

#### 'SMS PDU mode only

AT+CMGF=0

OK

#### '4.1 List Messages

AT+CMGL=?

+CMGL: (0-4)

#### '4.2 Read Message

AT+CMGR=?

OK

#### '4.3 Send Message

'BUG: 142/3 char limitation of User Text

AT+CMGS=?

OK

#### '4.4 Write Message to Memory

'BUG: 142/3 char limitation of User Text

AT+CMGW=?

OK

#### '4.5 Send Command

AT+CMGC=?

ERROR

#### '4.6 New Message Acknowledgement to ME/TA

AT+CNMA=?

ERROR

#### '4.7 Send Message from Storage

AT+CMSS=?

ERROR