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AT command set for User Equipment (UE)
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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
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Contents

Intellectual Property Rights 2
Foreword 2
Modal verbs terminology 2
Foreword 9
1 Scope 10
2 References 10
3 Definitions and abbreviations 17
3.1 Definitions 17
3.2 Abbreviations 17
4 AT command syntax 18
4.0 General 18
4.1 Command line 18
4.2 Information responses and result codes 19
4.3 ITU-T Recommendation V.250 [14] TE-TA interface commands 19
5 General commands 20
5.0 General 20
5.1 Request manufacturer identification +CGMI 20
5.2 Request model identification +CGMM 21
5.3 Request revision identification +CGMR 21
5.4 Request product serial number identification +CGSN 22
5.5 Select TE character set +CSCS 23
5.6 Request international mobile subscriber identity +CIMI 24
5.7 Multiplexing mode +CMUX 25
5.8 ITU-T Recommendaton V.250 [14] generic TA control commands 27
5.9 PCCA STD-101 [17] select wireless network +WS46 27
5.10 Informative examples 28
6 Call control commands and methods 29
6.0 General 29
6.1 Select type of address +CSTA 29
6.2 ITU-T Recommendation V.250 [14] dial command D 30
6.3 Direct dialling from phonebooks 30
6.4 Call mode +CMOD 32
6.4A Voice call mode +CVMOD 32
6.5 Hangup call +CHUP 33
6.6 Alternating mode call control method 34
6.7 Select bearer service type +CBST 35
6.8 Radio link protocol +CRLP 38
6.9 Service reporting control +CR 39
6.10 Extended error report +CEER 39
6.11 Cellular result codes +CRC 40
6.12 HSCSD device parameters +CHSD 42
6.13 HSCSD transparent call configuration +CHST 43
6.14 HSCSD non-transparent call configuration +CHSN 43
6.15 HSCSD current call parameters +CHSC 44
6.16 HSCSD parameters report +CHSR 45
6.17 HSCSD automatic user initiated upgrading +CHSU 45
6.18 HSCSD non-transparent asymmetry configuration +CHSA 46
6.19 Single numbering scheme +CSNS 47
6.20 Voice hangup control +CVHU 47
6.21 CCITT V.120 [36] rate adaption protocol +CV120 48
6.22 Settings date format +CSDF 49

6.23 Silence command +CSIL....50
6.24 Settings time format +CSTF....51
6.25 ITU-T Recommendation V.250 [14] call control commands....52
6.26 ITU-T Recommendation V.250 [14] data compression commands....52
6.27 Initiate eCall +CECALL....52
6.28 Informative examples....53

7 Network service related commands....54
7.0 General....54
7.1 Subscriber number +CNUM....54
7.2 Network registration +CREG....55
7.3 PLMN selection +COPS....57
7.4 Facility lock +CLCK....59
7.5 Change password +CPWD....61
7.6 Calling line identification presentation +CLIP....61
7.7 Calling line identification restriction +CLIR....63
7.8 Connected line identification presentation +COLP....64
7.9 Called line identification presentation +CDIP....65
7.10 Closed user group +CCUG....66
7.11 Call forwarding number and conditions +CCFC....67
7.12 Call waiting +CCWA....68
7.13 Call related supplementary services +CHLD....70
7.14 Call deflection +CTFR....71
7.15 Unstructured supplementary service data +CUSD....72
7.16 Advice of charge +CAOC....73
7.17 Supplementary service notifications +CSSN....74
7.18 List current calls +CLCC....76
7.19 Preferred PLMN list +CPOL....77
7.20 Selection of preferred PLMN list +CPLS....79
7.21 Read operator names +COPN....80
7.22 eMLPP priority registration and interrogation +CAEMLPP....80
7.23 eMLPP subscriptions +CPPS....81
7.24 Fast call setup conditions +CFCS....81
7.25 Automatic answer for eMLPP service +CAAP....82
7.26 User to user signalling service 1 +CUUS1....82
7.27 Preferred network indication +CPNET....84
7.28 Preferred network status +CPNSTAT....85
7.29 Current packet switched bearer +CPSB....85
7.30 Calling name identification presentation +CNAP....87
7.31 Connected line identification restriction status +COLR....88
7.32 Service specific access control restriction status +CSSAC....88
7.33 Network emergency bearer services support +CNEM....90
7.34 Enhanced closed user group +CECUG....91
7.35 Communication forwarding number and conditions with URI support +CCFCU....93
7.36 Message waiting indication control +CMWI....94
7.37 Session start and stop for MMTEL and SMSoverIP applications +CSCM....95
7.38 Power Saving Mode Setting +CPSMS....97
7.39 Application Start and Stop indication for applications other than MMTEL and SMSoverIP +CACDC....98
7.40 Informative examples....99

8 Mobile termination control and status commands....100
8.0 General....100
8.1 Phone activity status +CPAS....101
8.2 Set phone functionality +CFUN....102
8.3 Enter PIN +CPIN....103
8.4 Battery charge +CBC....105
8.5 Signal quality +CSQ....105
8.6 Mobile termination control mode +CMEC....106
8.7 Keypad control +CKPD....107
8.8 Display control +CDIS....108
8.9 Indicator control +CIND....109
8.10 Mobile termination event reporting +CMER....110

8.11 Select phonebook memory storage +CPBS 113
8.12 Read phonebook entries +CPBR 114
8.13 Find phonebook entries +CPBF 115
8.14 Write phonebook entry +CPBW 118
8.15 Clock +CCLK 119
8.16 Alarm +CALA 120
8.17 Generic SIM access +CSIM 121
8.18 Restricted SIM access +CRSM 122
8.19 Secure control command +CSCC 123
8.20 Alert sound mode +CALM 124
8.21 Ringer sound level +CRSL 124
8.22 Vibrator mode +CVIB 125
8.23 Loudspeaker volume level +CLVL 126
8.24 Mute control +CMUT 126
8.25 Accumulated call meter +CACM 127
8.26 Accumulated call meter maximum +CAMM 127
8.27 Price per unit and currency table +CPUC 128
8.28 Call meter maximum event +CCWE 128
8.29 Power class +CPWC 129
8.30 Set language +CLAN 130
8.31 Language event +CLAE 131
8.32 Set greeting text +CSGT 131
8.33 Set voice mail number +CSVM 132
8.34 Ring melody control +CRMC 133
8.35 Ring melody playback +CRMP 134
8.36 Master reset +CMAR 134
8.37 List all available AT commands +CLAC 135
8.38 Delete alarm +CALD 135
8.39 Postpone or dismiss an alarm +CAPD 136
8.40 Automatic time zone update +CTZU 136
8.41 Time zone reporting +CTZR 137
8.42 Enter protocol mode+CPROT 138
8.43 Generic UICC logical channel access +CGLA 139
8.44 Restricted UICC logical channel access +CRLA 140
8.45 Open logical channel +CCHO 142
8.46 Close logical channel +CCHC 142
8.47 EAP authentication +CEAP 143
8.48 EAP retrieve parameters +CERP 145
8.49 UICC application discovery +CUAD 145
8.50 Mobile originated location request +CMOLR 146
8.51 Backlight +CBKLT 150
8.52 Command touch screen action +CTSA 151
8.53 Command screen orientation +CSO 153
8.54 Command screen size +CSS 155
8.54A Command display screen boundary +CDSB 156
8.55 Positioning control +CPOS 156
8.56 Positioning reporting +CPOSR 172
8.57 Mobile terminated location request notification +CMTLR 173
8.58 Mobile terminated location request disclosure allowance +CMTLRA 175
8.59 Battery capacity +CBCAP 175
8.60 Battery connection status +CBCON 176
8.61 Battery charger status +CBCHG 177
8.62 Printing IP address format +CGPIAF 177
8.63 IMS single radio voice call continuity +CISRVCC 179
8.64 IMS network reporting +CIREP 179
8.65 Remaining PIN retries +CPINR 180
8.66 Set card slot +CSUS 181
8.67 Emergency numbers +CEN 182
8.68 Availability for voice calls with IMS +CAVIMS 183
8.69 Extended signal quality +CESQ 183
8.70 Primary notification event reporting +CPNER 185
8.71 IMS registration information +CIREG 186

8.72 Availability for SMS using IMS +CASIMS....187
8.73 Monitor of current calls +CMCCS....188
8.74 List of current calls +CLCCS....194
8.75 Supported radio accesses +CSRA....197
8.76 Circuit switched fallback +CCSFB....199
8.77 Informative examples....200

9 Mobile termination errors....204
9.1 Report mobile termination error +CMEE....204
9.1A Report mobile originated location request error +CMOLRE....204
9.1B Report network error codes +CNEC....205
9.2 Mobile termination error result code +CME ERROR....206
9.2.0 General....206
9.2.1 General errors....207
9.2.2 GPRS and EPS-related errors....208
9.2.2.1 Errors related to a failure to perform an attach....208
9.2.2.2 Errors related to a failure to activate a context....208
9.2.2.3 Errors related to a failure to disconnect a PDN....209
9.2.2.4 Other GPRS errors....209
9.2.3 VBS, VGCS and eMLPP-related errors....209
9.3 Mobile termination error result code +CMOLRE....209
9.3.1 General....209
9.3.2 Errors....210
9.4 Informative examples....210

10 Commands for packet domain....210
10.0 General....210
10.1 Commands specific to MTs supporting the packet domain....211
10.1.0 General remark about EPS bearer contexts and PDP contexts....211
10.1.1 Define PDP context +CGDCONT....212
10.1.2 Define secondary PDP context +CGDSCONT....216
10.1.3 Traffic flow template +CGTFT....218
10.1.4 Quality of service profile (requested) +CGQREQ....221
10.1.5 Quality of service profile (minimum acceptable) +CGQMIN....223
10.1.6 3G quality of service profile (requested) +CGEQREQ....224
10.1.7 3G quality of service profile (minimum acceptable) +CGEQMIN....227
10.1.8 3G quality of service profile (negotiated) +CGEQNEG....231
10.1.9 PS attach or detach +CGATT....233
10.1.10 PDP context activate or deactivate +CGACT....233
10.1.11 PDP context modify +CGCMOD....234
10.1.12 Enter data state +CGDATA....235
10.1.13 Configure local octet stream PAD parameters +CGCLOSP (Obsolete)....237
10.1.14 Show PDP address(es) +CGPADDR....237
10.1.15 Automatic response to a network request for PDP context activation +CGAUTO....238
10.1.16 Manual response to a network request for PDP context activation +CGANS....239
10.1.17 GPRS mobile station class +CGCLASS....240
10.1.18 Configure local triple-X PAD parameters +CGCLPAD (GPRS only) (Obsolete)....241
10.1.19 Packet domain event reporting +CGEREP....241
10.1.20 GPRS network registration status +CGREG....245
10.1.21 Select service for MO SMS messages +CGSMS....248
10.1.22 EPS network registration status +CEREG....248
10.1.23 PDP context read dynamic parameters +CGCONTRDP....251
10.1.24 Secondary PDP context read dynamic parameters +CGSCONTRDP....253
10.1.25 Traffic flow template read dynamic parameters +CGTFTRDP....254
10.1.26 Define EPS quality of service +CGEQOS....256
10.1.27 EPS quality of service read dynamic parameters +CGEQOSRDP....257
10.1.28 UE modes of operation for EPS +CEMODE....258
10.1.29 Delete non-active PDP contexts +CGDEL....259
10.1.30 Signalling connection status +CSCON....259
10.1.31 Define PDP context authentication parameters +CGAUTH....261
10.1.32 Initial PDP context activation +CIPCA....262
10.1.33 No more PS data +CNMPSD....262

10.1.34 UE's usage setting for EPS +CEUS 263
10.1.35 UE's Voice Domain Preference E-UTRAN +CEVDP 263
10.1.36 UE's Voice Domain Preference UTRAN +CVDP 264
10.1.37 UE's Mobility Management IMS Voice Termination +CMMIVT 265
10.1.38 Power Preference Indication for EPS +CEPPI 265
10.1.39 WLAN offload assistance data +CWLANOLAD 266
10.1.40 WLAN offload cell measurement +CWLANOLCM 268
10.2 Modem compatibility commands 269
10.2.0 General 269
10.2.1 MT originated PDP context activation 269
10.2.1.0 General 269
10.2.1.1 Request packet domain service 'D' 269
10.2.1.2 Request packet domain IP service 'D' 270
10.2.2 Network requested PDP context activation 271
10.2.2.0 General 271
10.2.2.1 Automatic response to a network request for PDP context activation 'S0' 271
10.2.2.2 Manual acceptance of a network request for PDP context activation 'A' 272
10.2.2.3 Manual rejection of a network request for PDP context activation 'H' 272

11 Commands for VGCS and VBS 272
11.0 General 272
11.1 Commands specific to MTs supporting the VGCS and VBS 272
11.1.1 Accept an incoming voice group or voice broadcast call +CAJOIN 272
11.1.2 Reject an incoming voice group or voice broadcast call +CAREJ 273
11.1.3 Leave an ongoing voice group or voice broadcast call +CAHLD 274
11.1.4 Talker access for voice group call +CAPTT 274
11.1.5 Voice group call uplink status presentation +CAULEV 275
11.1.6 List current voice group and voice broadcast calls +CALCC 275
11.1.7 Voice group or voice broadcast call state attribute presentation +CACSP 277
11.1.8 NCH support indication +CANCHEV 278
11.1.9 Originator to dispatcher information +COTDI 278
11.1.10 Short data transmission during ongoing VGCS +CEPTT 279
11.1.11 Group Id prefixes capability +CGIPC 280
11.2 Modem compatibility commands 281
11.2.0 General 281
11.2.1 Request VGCS or VBS service 'D' 281
11.2.2 Termination of an voice group or voice broadcast call 'H' 282
11.3.1 VGCS subscriptions and GId status +CGCS 282
11.3.2 VBS subscriptions and GId status +CBCS 283
11.4 Informative examples 283

12 Commands for USIM application toolkit 284
12.1 General 284
12.2 Commands specific to MTs supporting USAT 284
12.2.1 Read USAT profile +CUSATR 284
12.2.2 Write USAT profile +CUSATW 285
12.2.3 Profile download upon start-up +CUSATD 286
12.2.4 Activate USAT profile +CUSATA 287
12.2.5 Send USAT terminal response +CUSATT 289
12.2.6 Send USAT envelope command +CUSATE 289
12.3 Informative examples 290

13 Commands for enhanced support of dialling 292
13.1 General 292
13.2 Commands for dialling 292
13.2.1 Dial URI +CDU 292
13.2.2 Dial URI from phonebook +CDUP 295
13.2.3 Hangup of current calls +CHCCS 296
13.2.4 Define media profile +CDEFMP 297
13.2.5 Control and modify media description +CCMMD 298
13.3 Informative examples 299

14 Commands for eMBMS configuration 303

14.1 General 303
14.2 Commands specific to eMBMS 303
14.2.1 eMBMS configuration in MT +CEMBMSCFG 303
14.2.2 eMBMS status reporting in MT +CEMBMSR 304
14.2.3 eMBMS service configuration +CEMBMSSRV 305
14.2.4 Enter eMBMS data state +CEMBMSDATA 306
14.2.5 eMBMS counting procedure +CEMBMSCNT 306
14.2.6 eMBMS Service Area Identities +CEMBMSSAI 307

Annex A (normative): Summary of commands from other standards 309

Annex B (normative): Summary of result codes 311

Annex C (informative): Commands from TIA IS-101 313

C.1 Introduction 313

C.2 Commands 314
C.2.1 Select mode +FCLASS 314
C.2.2 Buffer threshold setting +VBT 314
C.2.3 Calling number ID presentation +VCID 315
C.2.4 Receive gain selection +VGR 315
C.2.5 Transmit gain selection +VGT 315
C.2.6 Initialise voice parameters +VIP 316
C.2.7 Inactivity timer +VIT 316
C.2.8 Line selection +VLS 316
C.2.9 Receive data state +VRX 318
C.2.10 Select compression method +VSM 318
C.2.11 DTMF and tone generation +VTS 319
C.2.12 Tone duration +VTD 319
C.2.13 Transmit data state +VTX 320

Annex D (informative): Bibliography 321

Annex E (informative): Mobile originated alternating voice/data call example 322

Annex F (informative): Mobile terminated voice followed by data call example 323

Annex G (informative): Voice call example 324

Annex H (informative): Change history 325

History 331

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1 Scope

The present document specifies a profile of AT commands and recommends that this profile be used for controlling Mobile Termination (MT) functions and GSM/UMTS network services from a Terminal Equipment (TE) through Terminal Adaptor (TA). The command prefix +C is reserved for Digital Cellular in ITU-T Recommendation V.250 [14]. The present document has also the syntax details used to construct these extended GSM/UMTS commands. Commands from ITU-T Recommendation V.250 [14] and existing digital cellular standards (TIA IS-99 [15] and TIA IS-135 [16]) are used whenever applicable. Some of the new commands are defined such way that they can be easily applied to MT of networks other than GSM/UMTS. ITU-T Recommendation T.31 [11] and ITU-T Recommendation T.32 [12] fax AT commands may be used for GSM/UMTS fax transmission from TE. GSM/UMTS Short Message Service AT commands are defined in 3GPP TS 27.005 [24]. AT commands for GPRS and EPC are defined in clause 10 of this specification. The present document assumes an abstract architecture comprising a TE (e.g. a computer) and a MT interfaced by a TA (see figure 1). The span of control of the defined commands should allow handling of any physical implementation that this abstract architecture may lead to:

- TA, MT and TE as three separate entities;
- TA integrated under the MT cover, and the TE implemented as a separate entity;
- TA integrated under the TE cover, and the MT implemented as a separate entity; and
- TA and MT integrated under the TE cover as a single entity.

The commands described in the present document may be observed on the link between the TE and the TA. However, most of the commands retrieve information about the MT, not about the TA.

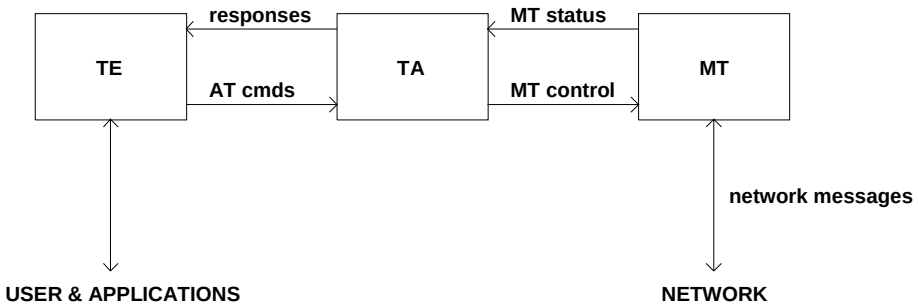

Figure 1: Setup

Interface between TE and TA is intended to operate over existing serial (ITU-T Recommendation V.24) cables, infrared link, and all link types with similar behaviour. For correct operation many of the defined commands require eight bit data and therefore it is recommended that TE-TA link is set to eight bits/ byte mode. (For infrared operation implementation, refer informative references IrDA. For embedding AT commands and data during on-line data state, refer TIA-617/ITU-T V.80.) Interface between TA and MT is dependent on the interface in the MT.

The functional blocks shown in figure 1, using AT commands, shall follow the principles described in the interactions handling framework 3GPP TS 23.227 [63].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.