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Software Release Note for Step4

AT Version V322

Update 09/11/99

New features

- NF1- Closed User Group (AT+CCUG, ATD[G][g])
- NF2- Load factory configuration for voice parameters (AT+VIP)
- NF3- Call on a DTR rise (AT%D)
- NF4- Display modem information (ATIn, AT&Vn)
- NF5- Abort command for some SS, SMS sending, interrogation of available PLMN (AT+WAC)
- NF6- Load factory settings configuration (AT&F)
- NF7- Abort an outgoing call in alerting phase (ATH1)
- NF8- Cell broadcast message storage (extension of +CPMS, +CNMI, +CMGR, +CMGD, and +CMGL)
- NF9- New command for radio link parameters in DATA mode (AT+DOPT)

Corrected problems (CP) / Changes in the AT command interface (CAT)

Preliminary remark : The former bug identification refers to Release Note Step 3 (V310)

- ☒ CP1 (CAT)- AT+CRLP : changes in the parameters to be in accordance with the GSM 07.07 specification
- ☒ CP2 (CAT)- ATSn : all unsupported values now answers "OK "and not "ERROR "
- ☒ CP3 - AT+CBST, +FCLASS, +CRLP can now work without SIM
- ☒ CP 4- After several very quick open/close actions on the SIM card socket, AT+CPIN ? does not answer with "SIM not inserted "error message for 30s any more (Former Bug Reference : KB 9).
- ☒ CP 5- Very early assignment procedure : call establishment OK in data mode when a FACCH is allocated instead of a SDCCH (Former Bug Reference : KB 10).
- ☒ CP 6 -AT+CCED : BCCH frequency value is correct (Former Bug Reference : KB 23).
- ☒ CP7- AT+ECHO command can again be sent during communication
- ☒ CP 8 -Various problems of software crashes (more often seen in DATA/FAX mode) have been fixed
- ☒ CP 9 -In case of error in decoding AOC SIM files, the module behaviour is now correct
- ☒ CP 10- AT+CCFC = x, 2 (interrogation of supplementary service state), if the network doesn't respond, the SS communication is not automatically released but AT+WAC permits to release it (Former Bug Reference : KB 13).
- ☒ CP 11- AT+CLCK = "FD" ,1, xxxx with a phase 1 SIM card (without FDN) now returns +CME ERROR 3 (Former Bug Reference : KB 14).
- ☒ CP 12- AT+CREG = 1 : When SIM card is removed after «CREG : 1 » has been received, the indication "+CREG : 0 " is now received (Former Bug Reference : KB 18).
- ☒ CP 13- On some networks, an outgoing call with CLIR invocation could be refused, and now the module displays the "+CSSI : 7 " indication (Former Bug Reference : KB 22).
- ☒ CP 14 - AT+COPS in manual/automatic mode and short name format (i.e. AT+COPS = 4 , 1, xxx) does work (Former Bug Reference : KB 24).
- ☒ CP 15 (CAT) - It's not possible anymore to enter a phonebook entry without a phone number
- ☒ CP 16 (CAT)- AT+CREG=2 : In this mode the information of <LAC> and <CI> were inverted
- ☒ CP 17- AT+CMSS in PDU mode only, the first byte was changed from 1 to 21 (status report required)
- ☒ CP 18- One party is on hold and another party is alerting. If the party on hold is hanging up, the module now sends "+CSSU: 5 "and not "NO CARRIER "anymore. If the alerting party answers, the module sends OK
- ☒ CP 19 (CAT)- AT+CMUT can not be used outside a communication anymore and AT+CMUT? always answers the correct value.
- ☒ CP 20- When SIM PIN1 is required, the PIN2 could not be entered so AT+CPIN2=xxxx<CR> will return +CME ERROR 11 (SIM PIN required) (Former Bug Reference : KB 6)



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- ☒ CP 21- AT+CPBW commands can be concatenated like others commands (Former Bug Reference : KB 8)
- ☒ CP22- When the module receives an indication that a multiparty call is set, the +CSSU indication is now sent (Former Bug Reference : KB 21)
- ☒ CP23- AT+ADC? command now works correctly
- ☒ CP24- Phonebook entries could now be entered with spaces inside the phone number
- ☒ CP25- When a call waiting party changes to incoming call and the network presents an empty bearer, the module now displays the correct "RING" or "+CRING" indication and not "ERROR" anymore
- ☒ CP26- SMS contents in text mode could now begin with a "; "
- ☒ CP27- AT+CRES command does not lock the AT+CSCA command in "+CMS ERROR 515" state anymore
- ☒ CP28- When a SIM card have no SCA file, the module uses E2P instead and does not display "+CMS ERROR 302" (regression in 31x versions)
- ☒ CP29- Phase2+ SIM card are now correctly handled
- ☒ CP 30- If we remove the SIM card during the reading of the SMS, the +CMGL display is stopped but modules works properly (Former Bug Reference : KB 19)
- ☒ CP 31- When receiving an USSD, the module displays the string but if a low level failure occurs before protocol negotiation is over, the module sends an +CUSD : 4 indication (Former Bug Reference : KB 16)
- ☒ CP 32- When ACMmax is reached and a new incoming call with AOC is received, the module disconnects the call (normal case) and no +CCCM : 000000 indication is sent (Former Bug Reference : KB 17)
- ☒ CP 33- SMS-CB: When receiving a scheduling message on a non-subscribed type of message, the module does not stop receiving subscribed SMS-CB.
- ☒ CP 34- After successive DATA and voice calls, uplink audio are no more shutdown
- ☒ CP 35- When setting a voice call in hold and making a DATA call, audio are switched off, even when coming back to the voice call.



Known bugs

Preliminary remark : The former bug identification refers to Release Note Step 3 (V310)

- ☒ KB 1- When displaying an SMS in PDU mode with an unknown DCS, the User Data (after the TP_UDL) are not displayed (Former Bug Reference : KB 1).
- ☒ KB 2- When entering AT+CMGS=<Phone Number> followed by " ; ", an ERROR response is sent by the module but the SMS is sent correctly (Former Bug Reference : KB 2).
- ☒ KB 3- Issuing AT+CFUN=0, just after CFUN=1, answers with +CME ERROR: 3, then +CME ERROR: 515, then +CME ERROR: 3 and then OK (Former Bug Reference : KB 4).
- ☒ KB 4- In case of non authorised registration (+CREG: 3, registration denied), a +CREG: 2 indication is sent (Former Bug Reference : KB 5).
- ☒ KB 5- Commands of more than 400 characters crash the module (Former Bug Reference : KB 7)
- ☒ KB 6- AT+COPS in manual mode just after entering PIN code answers +CME ERROR 3 and not +CME ERROR 515 (Former Bug Reference : KB 11).
- ☒ KB 7- With a concatenated command line greater than 286 characters, the module only handles the first command (Former Bug Reference : KB 12).
- ☒ KB 8- AT+CPINC with a phase 1 SIM card returns random values for PIN2, PUK1 and PUK2 remaining attempts (Former Bug Reference : KB 15).
- ☒ KB 9- If three wrong pin codes have been entered (i.e. PUK necessary) and an incoming call is received, the call is rejected but all following AT commands will answer "+CME ERROR: 10"(SIM not inserted) (Former Bug Reference : KB 20).
- ☒ KB 10- In numerical format (ATV0) some responses have one extra <CR/LF> before the valid content of the response.
- ☒ KB 11- Incoming data bearers with speed < 2400 bauds (V21, V22, V23, V110) are not accepted in transparent mode
- ☒ KB 12- AT+CSSN=1,1: when the call is a CUG call (incoming or outgoing), no +CSSI, +CSSU indications are sent.
- ☒ KB 13- When the network does not acknowledge a DTMF request, the module answers "+CME ERROR 515 "to all commands. The call has to be released using ATH.
- ☒ KB 14- When setting partial number in FDN, like 01, all calls beginning by 01 are accepted but ATDL is rejected
- ☒ KB 15- Even with FDN active, it's always possible to send SMS.
- ☒ KB 16- If SMS are received while in DATA communication, when returning to OFFLINE mode, it could happen that "OK "and "+CMTI ."indications are inverted
- ☒ KB 17- AT+CMGW : the module is not able to write a SMS with "REC READ "or "REC UNREAD type
- ☒ KB 18- In detailed RING indication (AT+CRG=1), if the module receive an incoming call with en empty bearer, it displays "RING "instead of "+ CRING :
- ☒ KB 19- When accessing services which required PIN2 with a SIM card with no PIN2 required, a SIM failure occurs



Design Features

- ☒ DF1- It is possible to change the PIN2 value even if SIM PIN2 is required and has not been entered.
- ☒ DF2- When AT+CFUN=1 is issued right after CPBW cycles, some phonebook indexes might be lost
- ☒ DF3- When in Auto-Bauding mode, after issuing AT+CFUN=1 the module sends dummy characters (except if serial speed is 9600 bps, module sends OK and get resynchronised on the next AT command)
- ☒ DF4- With AT+CCED=1,8, the +CSQ responses (in idle mode) give a <ber> value of 99. When interrogating the value with AT+CSQ? the response is different from 99.
- ☒ DF5- When using AT+CBST=<74, 75 or 79> the module answers OK even if the indicated speed is not supported and negotiated to 9600
- ☒ DF6- AT+CMUT can only be activated during communication
- ☒ DF7- When an SMS is stored in SIM (with AT+CMGW) and is sent with AT+CMSS, its status does not switch from STO UNSENT to STO SENT
- ☒ DF8- When reading an SMS with unknown DCS ("reserved " or "UCS2 "), in text mode the text includes "DCS format error ". In PDU mode the octets located after TP_UDL are not displayed.
- ☒ DF9- Phonebook sorting is case sensitive
- ☒ DF10- AT&D2 : even when DTR signal is low, automatic answers are always permitted
- ☒ DF11- When switching to ONLINE mode, the module sends the "CONNECT xxx " indication after the rising edge of the DCD (CT 109) signal.
- ☒ DF 12- After a CCFC interrogation, the module displays the result in the same order as received from the network.
- ☒ DF 13- The following commands can not be concatenated : ATH, AT+CLCC, AT+WAC, AT+CFUN, AT+CPAS