



Software Release Note for Step2

AT Version V410A

Update 11/09/00

New features

- NF1-Clock management (AT+CCLK)
- NF2-Alarm management (AT+CALA)
- NF3-Single numbering scheme (AT+CSNS)
- NF4-Ring melody playback (AT+CRMP)
- NF5-Initialisation ringer sound level (AT+CRSL)
- NF6-Initialisation ring indicator mode (AT+WRIM)
- NF7-Automatic send SMS with DTR rise (AT%D2)
- NF8-Power saving mode (AT+W32K)
- NF9- Extension of AT+ADC to support a new analog digital converter measurement
- NF10-Extension of AT+CHLD to support Explicit call transfer
- NF11-Extension of AT+CMGD to support the multiple messages deletion
- NF12-Extension of phonebook commands (+CPBW,+CPBR,+CPBF,+CPBP,+CPBN,+CNUM) to support the UCS2 format.
- NF13-Extension of supplementary services commands (+CLCC,+CLIP,+CCWA,+COLP) to support the UCS2 format.
- NF14-Extension of sim toolkit commands (+STGI,+STGR) to support the UCS2 format.
- NF15-Extension of short messages commands (+CMGS,+CMSS,CMGR,+CMGL,+CSMP,+CMT,+CBM) to support the UCS2 format.
- NF16-Extension of phonebooks commands (+CPBS,+CPBR,+CPBW,+CPBF,+CPBP) to support new phonebooks memory storage ("LD", "MC", "ME", "RC", "MT", "SN") .

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

Preliminary remark : The former bug identification refers to Release Note Step 1 (V40x)

- ☒ CP1 (CAT)- During a multiparty call, if a third party hangs up, the module does not show NO CARRIER anymore.
- ☒ CP2 (CAT)- AT+CSCA ? could no more be used before PIN code has been entered and service initialisation
- ☒ CP3 (CAT)- In non-verbose mode (ATV0), extra < CR-LF > has been suppressed accordingly to V25ter (Former Bug Reference : KB 10).
- ☒ CP4 (CAT)- AT+ECHO : default parameters values have changed.
- ☒ CP5 Issuing AT+CFUN=0, just after CFUN=1, returns +CME ERROR: 515 (Former Bug Reference : KB 3).
- ☒ CP6 Incoming data bearers with speed < 2400 bauds (V21, V22, V23, V110) are now accepted (Former Bug Reference : KB 11).
- ☒ CP7 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 (Former Bug Reference : KB 13).
- ☒ CP8 AT+CMGW : the module is able to write a SMS with REC READ or REC UNREAD type (Former Bug Reference : KB 17).
- ☒ CP9 After successive DATA and VOICE calls, uplink audio are no more shutdown
- ☒ CP10 (CAT)- AT+CPBS ? : Now returns the phonebooks present on the SIM card
- ☒ CP11 The module handles properly 5V SIM cards which were answering to 3V resets but were not understanding 3V commands. It does not return " + CME ERROR 10 " anymore
- ☒ CP12 When a call setup is received with an empty bearer and extended ring indication is turned on, the module now displays correct " +CRING : xxx indication " (Former Bug Reference : KB 19).
- ☒ CP13 SIM card with no PIN2 provisioned are now handled properly (Former Bug Reference : KB 20).
- ☒ CP14. If SMS are received while in DATA communication, when returning to OFFLINE mode OK indication is always returned before " +CMTI ... " indications.(Former Bug Reference : KB 16).
- ☒ CP15 When setting a voice call in hold and making a DATA call, audio are switched off, even when coming back to the voice call (Former Bug Reference : KB 18).
- ☒ CP16 One active and one waiting call, when the second distant party hangs-up, there's now the regular NO CARRIER
- ☒ CP 17- When setting partial number in FDN, like 01, all calls beginning by 01 are accepted including ATDL (Former Bug Reference : KB 14).
- ☒ CP 18- AT+CKPD : module accepts all barring sequences
- ☒ CP 19- AT+ECHO : can be turned on/off during communications
- ☒ CP 20- AT+CNMI : when receiving a class 3 SMS with < mt > = 3, the module always answers with + CMT



- ☒ CP 21- AT+WTONE, AT+WDTMF commands does not accept values that are out of range
- ☒ CP 22- When huge amount of data are exchanged on the serial link, no characters are missing
- ☒ CP 23- When the module is restricted in extended GSM band, AT+CGMM answers E900
- ☒ CP 24- When listening SMS-CB with RAM storage, the serial number is correct
- ☒ CP 25- Display of SMS in PDU mode : service center length and coding are correct for class 3 with < mt > = 3 or class 0, 1, 3 with < mt > = 2
- ☒ CP 26- Endurance tests : robustness has been improved
- ☒ CP 27- When setting CREG automatic mode (AT+CREG=1), a spontaneous +CREG indication is now sent to indicate the current value.
- ☒ CP 28- With automatic RxLev indication activated, the +CSQ 99, 99 indication is now sent when going in NO SERVICE mode
- ☒ CP 29- +CCWA : One call is active, another is held. When a third call is presented, with CLIP activated, the call number is always presented.
- ☒ CP 30- AT+CCFC=0,2 : the number is always correct
- ☒ CP 31- If three wrong PIN codes have been entered (i.e. PUK necessary), module enter emergency state (Former Bug Reference : KB 9).
- ☒ CP 32- When displaying an SMS in PDU mode with an unknown DCS, the User Data (after the TP_UDL) are displayed (Former Bug Reference : KB 1).
- ☒ CP 33- AT+ADC? does work
- ☒ CP 34- When a SMS status report is requested but not routed (AT+CNMI=,,,0) the status-report is displayed correctly.
- ☒ CP 35- The audio loop test work correctly
- ☒ CP 36-AT+WDWL : The nominal software and the boot sector returns the same response.
- ☒ CP 37- AT+DS=,1,, does prevent data calls when compression not present
- ☒ CP 38-AT+STGR : When the Get inkey event ask for digit only, the ME accepts a digit answer
- ☒ CP 38- ATS0 : During an incoming call the auto-answer work correctly
- ☒ CP 39- ATI6 display the FAX CLASS2 and DATA 14400 capability
- ☒ CP 40- ATD*123 is now supported
- ☒ CP 41- AT+CLCC works when incoming call and number is in SIM phonebook with name-field full
- ☒ CP 42- Name of operator code 466-92 is "Chunghwa"
- ☒ CP 43- AT+WDTMF? returns "+WDTMF: (0-1),(0-9,*,#,A,B,C,D),(0-15),(0-50)"
- ☒ CP 44- Max value for parameter "duration" of AT+WTONE command is 50
- ☒ CP 45- Max value for parameter "duration" of AT+WDTMF command is 50

Known bugs

Preliminary remark : The former bug identification refers to Release Note Step 1 (V40x)

- ☒ KB 1- 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 2- In case of non authorised registration (+CREG: 3, registration denied), a +CREG: 2 indication is sent (Former Bug Reference : KB 3).
- ☒ KB 3- Commands of more than 392 characters crash the module (Former Bug Reference : KB 4)
- ☒ KB 4- AT+COPS in manual mode just after entering PIN code answers +CME ERROR 3 and not +CME ERROR 515 (Former Bug Reference : KB 5).
- ☒ KB 5- With a concatenated command line greater than 286 characters, the module only handles the first command (Former Bug Reference : KB 6).
- ☒ KB 6- AT+CPINC with a phase 1 SIM card returns random values for PIN2, PUK1 and PUK2 remaining attempts (Former Bug Reference : KB 7).
- ☒ KB 7- AT+CSSN=1,1: when the call is a CUG call (incoming or outgoing), no +CSSI, +CSSU indications are sent (Former Bug Reference : KB 8).
- ☒ KB 8- Even with FDN active, it's always possible to send SMS (Former Bug Reference : KB 11).
- ☒ KB 9- AT+CKPD : Interrogation of Call Forwarding Unconditional with multiples classes does not return the status for all classes. (Former Bug Reference : KB 16).
- ☒ KB 10- When listening SMS-CB with RAM storage, indications are sometimes buffered on the V24 link for a few seconds. (Former Bug Reference : KB 23).
- ☒ KB 11- AT+CSQ : value returned is under-evaluated when network is performing downlink DTX (Former Bug Reference : KB 25)
- ☒ KB 12- AT+CNMA : construction of the optional PDU is not correct. But simple acknowledge (positive or negative) is working. (Former Bug Reference : KB 26)
- ☒ KB 13- " + STIN : 98 " indication : there's one unwanted space before the colon (Former Bug Reference : KB 27)
- ☒ KB 14- USSD : bad behaviour on receipt of USSD with DCS not supported. (Former Bug Reference : KB 28)
- ☒ KB 15- Current time is not initialised with value "98/01/01,00:00:00".
- ☒ KB 16- Need to wait (approx. 500ms) between any changes of framing or speed before sending following AT command.
- ☒ KB 17- AT+CPBF: Returns the nearest location when entry is not found instead of displaying +CME ERROR: 3.
- ☒ KB 18- On Setup Call with Sim toolkit, if refused by user, all Sim Toolkit commands return +CME ERROR: 4.
- ☒ KB 19- On some networks it is impossible to put on hold a call which is held by the remote.

**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