



Software Release Note for Step1

AT Corrective Version V402

(NF 15, 16, 17, 18, 19, KB 25, 26, 27, 28, 29, 30, 31 CP27, 28 added,

KB10, 13, 14, 17, 18, 19, 20, 21, 25, 24, 15, 22, 8, 1, 26, 27 changed to CP17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 29, 30, 31, 32, 33, 34)

Update 05/05/00

New features

- NF1- SIM Toolkit (AT+STSF, +STGI, +STGR)
- NF2- Tone and DTMF generation (AT+WSTONE, +WDTMF)
- NF3- MMI Sequence parser (AT+CKPD, ATD)
- NF4- Extension of AT+CCFC (activate and deactivate mode supported)
- NF5- Extension of AT+CPBS (Emergency phone book supported)
- NF6- Extension of ATD (execute SS sequences and support Ecc service)
- NF7- Voice and DATA rate selection (AT+WVR, +WDR)
- NF8- Extension of AT+WIND (network found/lost)
- NF9- Extension of AT+CBST to support 14400 bauds.
- NF10- Extension of AT+FCLASS to support FAX CLASS 2.
- NF11- Extension of AT&F, ATZ, AT&W to support MNP2.
- NF12- V42bis (AT%C, AT+DS, AT+DR).
- NF13- MNP2 (ATN).
- NF14-Extension of AT+ECHO to support Switch Attenuation algorithm.
- NF15-Tracability commands (AT+WDOP, AT+WHWV)
- NF16-Test command for measurement on a given channel (AT+WSCAN)
- NF17-Initialisation status request (AT+WSTR)
- NF18-SMS acknowledge by user (AT+CNMA)
- NF19-Extended range for micro gain (AT+WSVG)



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

Preliminary remark : The former bug identification refers to Release Note Step 4 (V320)

- 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, does not answers with +CME ERROR: 3, then +CME ERROR: 515, then +CME ERROR: 3 and then OK anymore (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



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- 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.



Known bugs

Preliminary remark : The former bug identification refers to Release Note Step 4 (V320)

- 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- In case of non authorised registration (+CREG: 3, registration denied), a +CREG: 2 indication is sent (Former Bug Reference : KB 4).
- KB 4- Commands of more than 392 characters crash the module (Former Bug Reference : KB 5)
- KB 5- AT+COPS in manual mode just after entering PIN code answers +CME ERROR 3 and not +CME ERROR 515 (Former Bug Reference : KB 6).
- KB 6- With a concatenated command line greater than 286 characters, the module only handles the first command (Former Bug Reference : KB 7).
- KB 7- AT+CPINC with a phase 1 SIM card returns random values for PIN2, PUK1 and PUK2 remaining attempts (Former Bug Reference : KB 8).
- KB 9- AT+CSSN=1,1: when the call is a CUG call (incoming or outgoing), no +CSSI, +CSSU indications are sent (Former Bug Reference : KB 12).
- KB 11- Even with FDN active, it's always possible to send SMS (Former Bug Reference : KB 15).
- KB 16- AT+CKPD : Interrogation of Call Forwarding Unconditional with multiples classes does not return the status for all classes
- KB 23- When listening SMS-CB with RAM storage, indications are sometimes buffered on the V24 link for a few seconds
- KB 25- Echo cancellation does not work but switch attenuation is usable
- KB 28- ATI6 does not display the FAX CLASS2 capability
- KB 29- AT+CSQ : value returned is under-evaluated when network is performing downlink DTX
- KB 30- AT+CNMA : construction of the optional PDU is not correct. But simple acknowledge (positive or negative) is working.
- KB 31- " + STIN : 98 " indication : there's one unwanted space before the colon



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