SIM5320A Firmware Release Note

Latest Version: 1575B11SIM5320A

General Notes

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SIM5320A WCDMA/GSM Cellular Engine

1   Preamble

This Release Note introduces SIM5320A. Firmware versions and briefly describes the benefits over preceding release. Also you can find differences compared with preceding release.

New Features: list features or AT commands which are newly developed compared with the preceding version.

Improved Features: list features or parameters that have been changed or improved compared with the preceding version.

Related documents

[1] SIMCOM_SIM5320_ATC_EN_V1.30.doc
[2] SIM_DM_ATC_V1.08.doc
[3] SIM5320A_QCN_130110.qcn

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[New Features]

1. Add a function that customer exchange ringing from which passageway out.

2. Add SSL certificates support

3. Add AT+CFTPSSIZE command

4. Add patch Q6270BKPRBL1585011A_Case01165483(AMR)

5. Add several command for compatible SIM900

6. Add AT+CRPAAO command

7. Add the IPD head information in the CIPRXGET mode when   have set the CIPHEAD.

8. Add TCP PSH bit support in AT+CIPSEND command

9. Add the AT+CCMXPLAYSTATE command

10. Add AT+CIPDNSSET command

11. Add cell forbidden function

12. Add the manual and automatic function for ecall and test mode for the ECALL test.

13. Add AT+CIPTIMEOUT command

14. Add SMTPS function

15. Add a new item of AT+CPASSMGR for setting AT+SIMEI password

16. Add [,start_pos,size] parameters of POP3READ

17. Add the patch of CR374276 for DTM function

18. ADD the AT+NETDORM command for surporting FAST DORMANCY

19. Add the special coding NLS, NSS

20. Add AT+CPCMPORT command

21. Add LUA gpio.setfunc and gpio.getfunc functions

22. Add mo_sent_st_not_received function for +CMGD to delete fixed SMS

[Improved Features]

1. When TCP/IP is connecting, exchange manual mode   ,module can not receive TCP/IP data   in pressure test

2. Modify AT+CCERTDOWN/AT+CCERTLIST/AT+CCERTDELE which can run without SIM card,also Modify AT+CSSLKEY to support RSA/DSA keys

3. Modify the bug that sometimes not all RX data is output in SSL transparent mode.

4. Modify the bug that AT+CCHSTOP may report two +CCHSTOP: 0

5. Modify the bug that AT+CSIMDELAY may cause crash when value is bigger than 30seconds

6. Modify file_cfg_define.h to set all configuration file name using macro definition

7. Modify the bug that sometime AT+CLCC has no response in SIM5320AD

8. Modify the bug that sometime AT+CGACT? has no response in SIM5320AD

9. Support a new type memory

10. Modify the bug that AT+COPS=0 may cause crash when SIB11 contains 800/850 inter-freq measurement when module doesn't support WCDMA 800/850 bands

11. Modify AT+CSMTPSSUB which can only input 511 characters

12. Modify the bug that AT+CSMTPSBCH? may returns empty result.

13. Modify the bug that AT+CIPRXGET may cause RX block when switching auto/manual receive mode.

14. Modify the bug that AT+NETOPEN still reports +IP: OK in TCP/IP app3.0 mode when AT+CIPCCFG is set to async mode.

15. Modify the bug that +++ has no OK report in SSL transparent mode.

16. Modify the bug that MT call RING is not reported after SSL transparent mode enters +++

17. Modify the bug the FTPS operation directly returns ERROR after AT+CFTPSLIST returns two +CFTPSLIST: 10

18. Modify the bug that TCP/IP may leak header part

19. Modify LUA to clean event filter when thread ends

20. The phone number which is in storage of ME,it can not match the phone number when to make calls and receive messages

21. Modify EBDAT/LUA to add event filter function

22. Modify the bug that TCP/IP may block AT port when AT+CIPCCFG is set to async mode.

23. ModifythebugthatAT+CFTPPUTFILE/AT+CFTPGETFILE/AT+CFTPPUT/AT+CFTPG ET may not give correct error information when putting file with wrong REST value.

24. Modify LUA setevtpri which can set 101，add getevtcount/deleteevt functions.

25. Set at+csmp command before sms done reported,it will prompt ERROR

26. Modify the bug that AT+CASSISTLOC doesn't work for about 30 seconds when first AT+CASSISTLOC=1,1 failed which directly reports"+CASSISTLOC: 4"

27. Modify the bug that AT+NETCLOSE may causes AT port block.

28. Modify the macro contral for FEATURE_ATCOP_ECALL

29. Modify the bug that LUA sms.read_msg function may causes crash.

30. Modify the bug that AT+CSCRIPTCMD=? shows response with redundant blank characters.

31. Modify the default value of AT+CPMS is changed from "mem3" to "sm"

32. Modify the bug AT+CCHSTOP may fail when AT+CCHSET=1,1

33. Fix the data lost bug when transferring only one byte a unit.

34. Modify the bug that AT+CGACT may causes crash when performing AT+CFTPSLIST

35. Automatically quit for nothing prompt, when pop3 login after 5 minutes

36. Modify that it can exame the playing status on playing wav

37. Modify the bug that AT+CIPSEND may reports 0 sent bytes when transferring successfully.

38. Modify the bug AT+CIPRXGET doesn't support TCP server mode.

39. Modify the bug that +UDPSEND has redundant blank characters

40. Modify the bug AT+CCHSET=0 causes crash

41. Fix the bug about when using MUX modem port to dial up and with a large data transfer then the AT command port will be on and off

42. Fix the bug about opening MUX port failed with the baudrate 19200, 921600 when

43. using serial tool SIM5320 MUX TOOL V1.01 RTS

44. Fix the bug about the module can't response any AT command when using MUX NMEA port for a long time

45. When perform AT+POP3HDR to read messages, there is incoming call and ring prompt, but it can not pick up and hang up even there is no action on keys operation

46. Modify TCP/IP to support TCP/IP application note 3.0

47. Fix the bug about the moudle can't power up successfully when using

48. FOTA to update the firmware from B17 to B15

49. Modify HTTPSRECV to return result when the receiving buffer is empty.

50. Modify the GSM extension coding errors that may occur

51. Modify the bug that TCP/IP ATC gives wrong state in async mode.

52. Modify Module Always On to pull RI pin for SIM5320JE.

53. Modify AT+FSREAME which processes wrong when file name contains "/"

54. Modify the bug that AT+FSCOPY=D:/xxx.TXT may report"SD CARD NOT PLUGGED IN" when platform doesn't support TF-card.

55. Set up at + CCLK for many times, in the situation electric power restart, only the first set be done

56. Modify the bug that AT+CASSISTLOC=1,1 only reports "+CASSISTLOC: 0" immediately after previous successful AT+CASSISTLOC operation.

57. Modify the bug that AT+CASSISTLOC may causes crash.

58. Modify UART port under 7 line mode for POP3READ large files, if have incoming call cannot be connected.

59. Modify AT + CMMSVIEW check the MMS, the < type > return values beyond the range of parameters.

60. Modify set FDN then send SMS, prompt sent failure prompt information

61. Modify the bug that EBDAT ebdat_lsdir may fail after 55 times successful operation.

62. Modify LUA ls.dir fails after 55 times successful operation.

63. Modify EBDAT to add math functions.

64. Modify the bug that SSL transparent may block AT port when peer socket closes connection.

65. Modify LUA ATCTL to support SEND/RECV at the same time

66. Modify the bug that SIM5320AD can answer a voice call.

67. Modify the bug that AT+CFTPPUT may block for failing to query DNS name.

68. Modify At&f won't restore the settings of AT + CPMS's mem3　and AT + CMGF

69. Modify the bug that at+cassistloc=2,,,3，returns ERROR

70. Modify the bug that AT+CSCRIPTCL=? returns response with redundant blank character

71. Modify EBDAT/LUA to support concurrent SEND/RECV operation for SIO.

72. Modify the CSQ gain hierarchies

73. Fix the bug about when UART wake up from sleep mode it can not communicate with host until 10 second later.

74. Modify the bug that AT+CASSISTLOC=0 may report ERROR after failure AT+CASSISTLOC=1 when AT+CASSISTLOC=2 is set

75. Modify the bug that Module Always On may discard the RX packets before PPP dial is connected successfully.

76. Modify SMTP command returns value in the format of blank

77. Modify At + CMGL = "all" read all messages returned results slowly

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[New Features]

1. Add a new UART sleep mode under 3 lines.

2. Add the command of AT+CSIMG2W to limit the 2G SIM card switching from 2G network to 3G network.

3. Add the command of AT+CPTONEEXT.

4. Add the method of obtain the position information from http://www.google.com/glm/mmap.

5. Add API interface of power off and reboot in the EMBEDED AT system.

6. Add the method of automatic/manual TCP data acquisition.

7. Add the feature of SSL.

[Improved Features]

1. Fix the bug that the 112 emergency calls can't dial out when the signal is weak.

2. Fix the bug that AT+CLOSECLIENT returns the error of +IP ERROR: 9.

3. Fix the bug that the returned characters of AT command use lowercase character of !.

4. Fix the bug that AT+CHLD can pick up the phone but the parties can't hear any sound when AT+CHLD MT single rings.

5. Fix the bug that the return values of AT+CFTPPUT and AT+CFTPPUTFILE=? is error in the document.

6. Fix the bug that AT+CICCID can be performed with unlock PIN in the document that is inconsistent with the fact.

7. Fix the bug that the return value of AT+CFTRANTX has an unwanted comma before <len> in the document.

8. Fix the bug that the error return value of AT+CFTP is inconsistent with the document.

9. Fix the bug that it returns error when setting AT&S with default parameters that inconsistent with the document.

10. Separate parameters <fileIndex, name, type, fileSize> of AT+CMMSVIEW Execute Command into four different parameter using <>.

11. Fix the bug that Cell Assistant Location can't locate again after returned 'get host error'.

12. Fix the bug that AT+CDNSGIP="www.sina.com.cn" failed.

13. Modify the document that AT+STIN/AT+STGI/AT+STGR just can be used with unlock PIN.

14. Modify the error of AT+CASSISTLOCFORMAT example in the document.

15. Modify to judge the unwanted characters after URL setting by AT+CMMSCURL.

16. Fix the bug about CMSS.

17. Fix the bug that the return values of AT+CASSISTLOCFORMAT/AT+CASSISTLOCMODE/AT+CASSISTLOCT are different from the document.

18. Fix the bug that the return values of AT+CASSISTLOCFORMAT=? and AT+CASSISTLOCMODE=? have mistakes in the document.

19. Remove the check about the number of small DSM item when exporting data from HTTPS COM.

20. Modify the filed Date of SMTP send from Fri to Oct.

21. Modify FTPPUT/FTPGET to check the result about transfer completed.

22. Fix the bug that the return value of AT+CALM? over the range after downloaded software without setting AT+CALM.

23. Fix the bug that we input PUK code by AT+CPIN when PUK, and the return value is incorrect if we input incorrect PIN code.

24. Modify the return value of CLCK with PIN.

25. Fix the bug that it can't locate after single/cycle location switched repeatedly.

26. Fix the bug about network from customer Fujian LianDI.

27. Modify to user DTR to indicate the UART port can enter dormancy or can't.

28. Modify to save the setting of CNMI and CMGF.

29. Fix the bug that the module can't report CRING after modified module always on dialing and killed PPPD.

30. Fix the bug that we send READ/UNREAD/SEND/UNSEND SMS by AT+CMSS to new number, bug actually it still sends to the old number.

31. Fix the bug that it returns OK when the second parameter of AT+CSSLSET over the range.

32. Fix the bug that the return value of AT+CSSLOPEN=? is inconsistent with the document.

33. Add description about the second parameter of CHTTPSRECV in the document.

34. Fix the bug that <SESSION_ID> can't be set with 1 when AT+CSSLMODE is setting with 1.

35. Fix the bug that the Cell Assistant Location has been unable to successfully after AT+CSOCKSETPN set a valid PROFILE_NUMBER.

36. Add the command of AT+MORING in the document.

37. Fix the bug that the COM will be blocked if one executes AT+CGATT=0 before return '+CASSISTLOC: 0'.

38. Fix the bug that it returns abnormity if one dials a number doesn't save in PB when +COLP=1 and +CLIP=1.

39. Fix the bug that the return value of AT+CASSISTLOC is different from the document.

40. Fix the bug that the write command of AT+SMTPBCH misses error case in the document.

41. Fix the bug that the return value of AT+CPING is different from the document.

42. Modify <RNAME> of AT+SMTPRCPT to support UTF-8 format.

43. Fix the bug that the return value of AT+CGMR Examples in the document is different from the fact.

44. Add the test command of AT+CPINGSTOP=? to the document.

45. Fix the bug that the value range of AT+CRSL doesn't update synchronous.

46. Unify the font to Times New Roman.

47. Fix the bug that it returns unwanted OK with executing AT+CHTTPACT when AT+CLCC=1.

48. Fix the bug that the return value of AT+COPS=? in the document is different from the fact.

49. Fix the bug that the return value when AT+CSSLOPEN executes failed is different from the document.

50. Fix the bug that it returns repeated '+CSSLOPEN: FAILED' when one executes AT+CSSLOPEN again.

51. Fix the bug that the error return value of AT+CSSLOPEN write command is incorrect.

52. Fix the bug that the return information of +CMT contains an unwanted space.

53. Fix the bug that the Cell ID isn't unified with the provision when switching to W net.

54. Fix the bug that the return value of AT+FSMEM contains an unwanted space.

55. Fix the bug that the +CLCC ID displays incorrectly during dial CSD call.

56. Fix the bug that the module can't respond AT command after send NMEA data from NMEA port for a moment.

57. Fix the bug that the received SMS is different from the send content when the SMS contains special characters.

58. Fix the bug that the AT/DIAG/NMEA port lost data during pressure test.

59. Fix the bug that AT+CALM can't be use under PIN locked state which doesn't match with the document.

60. Delete the unwanted space in the return value of AT+FSLS?.

61. Fix the bug that ATD>SM190; failed and prompted 'invalid index' when under ME PB.

62. Fix the bug that the default value of AT+CGPSMD doesn't match with the document.

63. Fix the bug that the NV values of SIM5320A/AD/E/J/JE become all the same after executed AT&F1.

64. Fix the bug that AT+CLCC returns nothing, and then returns error with inputting other characters after TCP/IP NETOPEN.

65. Fix the bug that CLCC misses reporting some states when we dial or connect voice calls with AT+CLCC=1 after TCP/IP NETOPEN.

66. Fix the bug that AT+CFTRANRX<filepath> transfers files without path and returns OK, but actually the files didn't transfer.

67. Fix the bug that the parameter filename of AT+FSDEL with double quotation can delete files witch doesn't match with the document.

68. Modify TCP/IP to use the specified CID.

69. Fix the bug that the modified baud rate can't take effect under MUX.

70. Modify +CCGPSINFOCFG to +CGPSINFOCFG about AT+CGPSINFOCFG in the document.

71. Modify the return value format of +CGPSINFO to ddmm.mmmmmm,N,dddmm.mmmmmm,E... in the document.

72. Fix the bug that the return information of AT+FOTASETAGENT doesn't match with the document.

73. Fix the bug that the COM blocked if we execute AT+CPAS after TCP NETOPEN.

74. Fix the bug that the value of +CMSSEX: <mr> will increase with 1 automatically after

AT+CMSSEX send SMS failed.

75. Fix the bug that Subject: repeats twice when AT+POP3READ reads SINA downloaded mails.

76. Fix the bug that the test commands of AT+FOTASETAGENT/FOTADEF/FOTAQUERY return error.

77. Fix the bug that the return information of AT+FOTASETAGENT doesn't match with the document.

78. Fix the bug that the default value 0 of AT+FOTAUIMODE is different from the default value 1 of the document.

79. Fix the bug that the default value 0 of AT+FOTAINITIATOR is different from the default value 1 of the document.

80. Fix the bug that the module will be reboot when we read mails by `AT+CFTPGET with UART under 7LINE mode`.

81. Modify the title font of AT+CMMSSAVE to New Roman in the document.

82. Fix the bug that the GPIO interrupt processing is abnormal with setting GPIO as interrupt and triggering interrupts some times quickly.

83. Fix the bug that some GPIO has no response when several GIPO trigger interrupt at the same time.

84. Fix the bug FTPGET/FTPPUT/FTPLIST don't return for a long time under PASSIVE=FALSE.

85. Fix the bug that it reports +CLIP twice when there has a CSD incoming call with +CLIP=1 and +AUTOANSWER=1.

86. Fix the bug that it reports unwanted +COLP if there has a CSD incoming call, +CLIP=1 and +COLP =1 when the call is establishing.

87. Fix the bug about MMS report.

88. Fix the bug that the range values of AT+CRSL don't update synchronously in the document.

89. Delete the unwanted space in the return value of AT+CIPCLOSE query command.

90. Fix the bug that the return value format of AT+CMSSEX is incorrect.

91. Fix the bug that the return value of AT+SERVERSTART=? is different from the document and there're unwanted spaces in the return value under multi-connection.

92. Fix the bug that the Cell Assistant Location can't locate.

93. Fix the bug that the title doesn't display if look over the edited MMS by AT+CMMSVIEW.

94. Fix the bug that Subject: display twice when read SINA mail by AT+POP3READ.

95. Fix the bug that the error return value of AT+CASSISTLOC is different from the document.

96. Fix the bug that the module will be reboot after GPS location when MUX as virtual AT port and AT+CGPS=1.

97. Fix the bug that the format of return value of AT+CMSSEX is incorrect.

98. Fix the bug that the error return value of AT+SERVERSTART Execution Command is different from the document.

99. Modify to use '-' represent interval in the AT+CVLVL=? command document.

100. Fix the bug that the return value of AT+CVLVL write command is different from the fact.

101. Fix the bug that the AT+CFTPPUTFILE doesn't release NETLIB because of PDP activation failed then the next operation failed.

102. Fix the bug that it doesn't report when LAC CELLID changing with CREG/CGREG =2.

103. Fix the bug that the module will be reboot when read all SMS by AT+CMGL="ALL".

104. Fix the bug that the value range of <function> of AT+CGFUNC=? return value is different from the document.

105. Fix the bug that when use PDP network, check AT+CPAS,the return value is 0.

106. Fix the bug that when use AT+CFTPSPUT to upload file to the server, it restarts.

107. Fix the bug that when login FTPS and read the root directory, it restarts.

108. Fix the bug that when client connecting module server successfully, AT/Modem is no response, and at that time, if there is a incoming call, it will restarts.

109. Fix the bug that when use PDP network, answer the incoming call, then HTP update the time, it returns +CHTPUPDATE: 4, after this, AT+CHTPUPDATE command is useless.

110. Fix the bug that after execute a FTP command, it needs to wait about 10s for the next command.

111. Fix the bug that AT+CFTPSPUT can upload files within 1024, which is different from the document..

112. Fix the bug that the number of the return value of AT+CCHOPEN, which is different from the document.

113. Fix the bug that when use AT+CASSISTLOC to get the location, when use AT+CHTPUPDATE to update the time, it returns OK, but no update time returns.

114. Fix the bug that after executing FTP related commands, execute FTP command, it

returns "+CME ERROR: Network error".

115. Fix the bug that when use AT+CFTPGET/AT+CFTPGETFILE to download 0 bit files, it can not download, and returns "+CFTPGETFILE: 213".

116. Fix the bug that after modify PDP dial, AT+CGACT? Returns 0.

117. Fix the bug that execute +cchopen by mistakes, it returns CONNECT FAIL, which is different from the document.

118. Fix the bug about SSL transmission, set up the connection, often failed.

119. Fix the bug that use AT+POP3GET download mail, check the mail after downloaded, part will lost.

120. Fix the bug that the return value of AT+CASSISTLOC does not use the unite format.

121. Fix the bug that repeat to execute AT+CASSISTLOC, the first orientation time will delay about 20s.

122. Fix the bug that there is blank the return value of AT+FSATTRI.

123. Modify the ATC document about response of CASSISTLOC command.

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[New Features]

1. Add the command of AT+CFTRANRX for transferring files between module EFS and external host.

2. Add the command of AT+CFTRANTX for transferring files between module EFS and external host.

3. Add the FTP command about creating, deleting the folder and deleting the file.

4. Add the function about locking cell.

5. Add the function about displaying the MO phone state.

6. Add the command of AT+CMSSEXM about SMSGroupSends.

7. Add an interface of setting format of reported location information.

8. Add the command of AT+CUARTWD.

[Improved Features]

1. Fix the bug that it returns IPCLOSE twice when the server closed the connection after TCP connected.

2. Fix the bug that the ringtones can't mute completely.

3. Fix the bug that MUX can't be operated after the system waked from sleep.

4. Fix the bug that the module will be reboot when download file sized 500K from server by AT+CFTPSGET.

5. Modify the command of AT+CGUAHT and AT+CSOCKAUTH to support CHAP to configure USER_ID.

6. Modify the command of AT+CICCID can be execute without unlock PIN.

7. Fix the bug that the return value of AT+CASSISTLOC is different from the document.

8. Modify to check the number of DS command buffer about ftpget/httpact/ftpsget, then process the cache buffer if the number is small.

9. Fix the bug that the SMS isn't ordered by the serial number when read SMS by AT+CMGL="ALL".

10. Fix the bug that the AT document of AT+SMTPBCH write command misses the error case.

11. Fix the bug that there's no examples about AT+POP3READ in the AT command document.

12. Fix the bug that the module will be reset we use TCP server and client at the same time and connect with the client of 11 under multi_client mode.

13. Fix the bug that the module can't enter dormant state when using the PCM channel to call.

14. Fix the bug that MUX will receive illegal character after the module entered dormant state.

15. Modify the return value of 'UDPWRITE' to 'UDPSEND' with executing AT+UDPSEND.

16. Fix the bug that the returned data of AT+CFTPSLIST is repeated.

17. Fix the bug that the return value of example of AT+CGPSXE in the AT command document is error.

18. Modify the AT command document about AT+CGPSDEL that it can effect when AT+CGPS=0.

19. Fix the bug that it returns error when switch from on mode to another by AT+CGPS, but actually it was successful.

20. Fix the bug that the parameter <time> and <config> of AT+CGPSINFOCFG can be omitted, that is different from the AT command document.

21. Fix the bug that the module will be reboot when the FTPS server port is occupied and AT+CFTPSLOGIN returns error, then AT+CFTPSSTOP is invalid and CGATT switches

to 0.

22. Fix the bug that the time interval between received DTMF tones is greater than 300ms when we send DTMF tones by AT+VTS="1,2,3" during a call.

23. Fix the bug that AT+FSDEL can't delete files after put files failed by AT+CFTP(S).

24. Fix the bug that AT+CVLVL returns OK during playing audios, but actually it failed, then it must be replay for resume.

25. Fix the bug that it returns CLOSE twice when the server closed the connection during TCP connecting, and AT+NETCLOSE is valid.

26. Modify the command of AT+GMR/AT+CGMR to return MOB_SW_REL_VER.

27. Modify the AGC parameters.

28. Add two time parameters in the return value of AT+CASSISTLOC in the AT command document.

29. Add the test command of AT+TCPCLOSE=? in the AT command document.

30. Fix the bug that AT+TCPWRITE/AT+UDPSEND/AT+CIPSEND can send the data greater than 1024, that is different from the AT command document.

31. Fix the bug that the Execution Command of AT+CASSISTLOC misses parenthesis of parameter <TIME_BETWEEN_FIX> in the AT command document.

32. Fix the bug that RECV FROM, RECEIVE, IPD and the later received data may be send separately, then the intermediate insert active report.

33. Fix the bug that it can be a normal call when we dialed the number that there's other characters after the name, and there's no error.

34. Modify to judge if there's unwanted character when we setting URL by AT+CMMSCURL.

35. Fix the bug that there's unwanted space in the return value of AT+SMTPAUTH?.

36. Fix the bug that the data received by PSAP is incorrect when AT+CECALLFMT=1.

37. Add the mode of AT+CNMI=2,2.

38. Fix the bug that the AT&S setup must be with unlock PIN, that is different from the AT command document.

39. Modify to match to the name saved in PB that no matter with or without '+' when receiving SMS and reporting CMT.

40. Modify the level of CRSL to 8.

41. Fix the bug that AT+CFTPGET /AT+CFTPGETFILE /AT+CFTPSGET /AT+CFTPSGETFILE can't get the file size using SIZE with some FTP servers.

42. Modify the default value of CID as 1 and CID can be full when we open the base station location.

43. Fix the bug that it deleted files before FTP/FPTS open the file handle and transfer files, then the file handle change to be 0 and upload errors.

44. Fix the bug that there's an additional '0' during the process that UART waking from sleep.

45. Modify the function of AT+CMSS.

46. Fix the bug that the return value of AT+CPING is different from the document.

47. Fix the bug that the return value of AT+CPING is incorrect when APN errors.

48. Fix the bug that the return value of AT+CPINGSTOP is different from the document.

49. Fix the bug that the return value of AT+CFTPDELE is different from the document.

50. Modify the error message of AT+CFTPDELE of deleting the nonexistent files unified with AT+CFTPMKD/AT+CFTPRMD.

51. Modify 'filename' in the test command of AT+CFTPDELE=? to 'FILENAME'.

52. Fix the bug that there's unwanted space before every returned parameter of AT+CIPOPEN?.

53. Fix the bug that it switches between HSDPA and WCDMA frequently and the signal changes to 0 suddenly sometimes when AT+CFTPPUTFILE uploading/downloading data.

54. Fix the bug that the connection mode of terminal displays will switch constantly (4,5) when we dial-up internet using 3G UNICOM card and select to disconnect the connection from the PC.

55. Fix the bug that the return value of AT command contains lowercase characters.

56. Fix the bug that there's unwanted space in the return value of AT+CHTPSERV?.

57. Fix the bug that the opened file handle isn't closed when timeout error occurs with the FTPPUTFILE operation.

58. Fix the bug that AT+CLOSECLIENT returns the error of '+IP ERROR: 9'.

59. Fix the bug that AGPS location information displays abnormally when there's negative.

60. Unify the length of address sending by AT+CMMSRECP and AT+CMMSSEND.

61. Fix the bug that the SMS that the other side received is empty of garbled when we send SMS using super PB and sending successfully.

62. Fix the bug that the SMS that the other side received is empty that sending use SMSGroupSends.

63. Fix the bug that 112 emergency calls can't allocate sometimes when the signal is weak.

64. Fix the bug about AT+CELLLOCK.

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[New Features]

1. Add the command of AT+SMTPBCH.

2. Add the command of AT+SERVERSTART?.

3. Add the test command of AT+TCPCLOSE=?.

4. Add the command of AT+CCED.

5. Add the function that it can open two TCP servers in the same time under multi client mode.

[Improved Features]

1. Modify CNTI and add 'HSPA' display.

2. Modify the mode of timer automatic shutdown to software shutdown.

3. Modify SMTP to support UTF-8 format.

4. Fix the bug that the next query result is incorrect after single timing shutdown by at+capwroff.

5. Fix the bug that the range of parameter <gpio_num > of AT+CGDRT is incorrect.

6. Fix the bug that there's no return with executing NETCLOSE after AT+CIPOPEN creates multiple connection failed with wrong IP address.

7. Fix the bug that the parameter <valid> of AT+CSVM is not uniform.

8. Fix the bug that the module will be reboot when executing AT+CFTPSGET to get the file greater than 500K.

9. Fix the bug that the TCPCONNECT will be failed and return CLOSE if the TCP server is closed or the TCP parameter is wrong when AT+NETOPEN='TCP'.

10. Fix the bug that it returns OK with executing AT+NETCLOSE when AT+NETOPEN='TCP' and it doesn't close socket by AT+TCPCLOSE after TCP connected.

11. Fix the bug that the too much FTPS read events lead to the ds command buffer is not enough.

12. Fix the bug that the format of return value of AT+CSVM=? is different from other AT command, and the range of value is different from the document.

13. Fix the bug that it returns CLOSE twice and can't AT+NETCLOSE if the server closes

the connection when TCP connected.

14. Fix the bug it doesn't not return problems when STK returns STIN:24 twice continuously.

15. Fix the bug that it prompts that the TCP connection created when AT+NETOPEN="TCP" without port number and connected again after failed by AT+TCPCONNECT.

16. Fix the bug that the returned value of AT+CFTPPUT is different from the document.

17. Modify AT+CSQ and AT+AUTOCSP to displays 0 when CSQ=99.

18. Add the length of <profile> about AT+CMMSPROFILE in the document.

19. Add the length of <useragent> about AT+CMMSPROFILE in the document.

20. Fix the bug that the description of <length> is incorrect about AT+TCPWRITE, AT+CIPSEND and AT+UDPSEND.

21. Add QXDM log to display the byte number of send and receive about TCP/IP transparent transmission mode.

22. Fix the bug that GIPO42 will become low during a call.

23. Fix the bug that it will be reboot when executing AT+POP3READ to read a greater mail.

24. Fix the bug it stills can hear the voice from the other side even if AT+VMUTE=1.

25. Fix the bug that the return value in the example section of AT+CECALLTRIG in the document is inconsistent with the fact.

26. Fix the bug that the other side stills can hear the voice even if AT+CLVL=0 after had a call and connected by AT+CLVL.

27. Modify the command of AT+CRXFILE and AT+CTXFILE to support {non-ascii}.

28. Fix the bug that the test command and return value of AT+SMTPBCH is inconsistent with the fact.

29. Fix the bug that it returns error with setting <PWD> as null by AT+SMTPAUTH but the setting was successful actually.

30. Fix the bug that it returns two different error information with executing AT+POP3GET failed on SINA pop3 mailbox.

31. Delete an extra space in the return value of AT+NETOPEN?.

32. Fix the bug that the NETOPEN without port number during TCP transparent transmission and it requires to perform NETCLOSE two times to shut down NETWORK as same as TCPCLOSE when switches by +++.

33. Fix the bug that it can't set AT+CINICMPALLOW as 0 just after power on.

34. Fix the bug that the definition character is too small of AT+CMMSDOWN in the

document.

35. Fix the bug about the write command of AT+CHTTPSSEND in the document.

36. Modify to read ADC more times and get the average value to prevent dithering.

37. Fix the bug that the module will be reboot when the super terminal/serial elf connect the NMEA virtual ports setting under multiplexer.

38. Fix the bug that the return value of hang up the call by AT+CECALLE is inconsistent with the document.

39. Fix the bug that the module will be reboot when executing AT+POP3GET to get greater mail.

40. Delete an extra space in the return value of AT+POP3NUM.

41. Fix the bug that it returns other characters after 'starting power off the module!' from UART with setting automatic shutdown by AT+CAPWROFF.

42. Open the function of mobile detection.

43. Fix the bug that some GPIO interrupts are turned off if the GPIO interrupts trigger at the same time.

44. Fix the bug that it can't send again after SMTP sent multi-times.

45. Fix the bug that the USB controller will crash and restart after the module of 230M slept and waked by USB multi-times.

46. Modify the command of FSDEL, FSRENAME, FSCOPY and FSATTRI to support the parameter format of {non-ascii}"xxxx".

47. Fix the bug that the return value is inconsistent with the document when AT+CASSISTLOC=1/2.

48. Modify to TCP server and client can use.

49. Solve the conflict between PB DOWN and CRSM.

Version: 1575B07SIM5320A

[New Features]

1. Add the command of AT+TCPCLOSE.

2. Add the command of AT+CSINGLEPDP.

3. Add the command of AT+CMMSUA.

4. Add the command of AT+CMMSPROFILE.

5. Add the description about <address> of AT+CMMSSEND.

[Improved Features]

1. Fix the bug about FTP<rest_size>.

2. Fix the bug that the bound of <DelayTm> in the returned value of AT+CTCPFIN=? is incorrect.

3. Fix the bug that if it sends the same MMS to more than 2 nonexistent long number by AT+CMMSSEND, and then the user address getting by AT+CMMSRECP displays incorrect.

4. Fix the bug that if it sends the same MMS to more than 3 nonexistent long number by AT+CMMSSEND, and then the module reboots if it queries the number of receivers by AT+CMMSRECP.

5. Fix the bug that '+STIN:25' displays two times when it powers on.

6. Fix the bug that it didn't clean the distributive EMS memory when AT+CGREG doesn't registered and it returns error by executing AT+CHTTPSSTART.

7. Fix the bug that the module reboots if it executes AT+CHTTPSSTART and AT+CHTTPSOPSE to open HTTPS Server without loading PS field.

8. Fix the bug about AT+CFTPPUTFILE.

9. Modify the function about STK.

10. Modify the allowable character of phone number in PB.

11. Fix the bug that it stills return OK when the second parameter of AT+CSMP is more than 255.

12. Fix the bug that it doesn't return 'NO CARRIER' when it uses dial-up internet access by modem and has a call by AT then the other side hangs up.

13. Fix the bug that the auto power off time is incorrect or error when it modifies of updates the system time.

14. Fix the bug that it usually repeats to receive when receiving the DTMF.

15. Fix the bug that the module will be reboot if we call by name using ATD<str> and add string after <str>.

16. Fix the bug about binding to port failed when AT++SERVERSTART=<port>.

17. Fix the bug that there's no limit about the character type when dialed by number with ATD<n>.

18. Fix the bug that it returns 'OK' when using error setting command about AT+CSCS, but actually failed.

19. Fix the bug that the parameter <findtext> of AT+CPBF can't default in the document but actually the software can.

20. Fix the bug about PDP dial.

21. Fix the bug that if we have an emergency call with SIM PIN, the other side isn't the actual number and the connected party is different from the one of unlock PIN.

22. Fix the bug that the COM sometimes blocks when executing AT+POP3HDR or AT+POP3LIST.

23. Fix the bug that it reports unwanted '+POP3: SERVER ERROR' when deleting nonexistent mail by AT+POP3DEL.

24. Fix the bug that the module will reboot when it download the file sized 500K from server by AT+CFTPSGET.

25. Fix the bug that AT+CFTPSLOGIN returns error when the FTPS server port is occupied, and then AT+CFTPSSTOP can't execute.

26. Fix the bug that the accepted socket is not fully closed when TCPCLOSE.

27. Fix the bug about the logic error between system time synchronization and automatic shutdown.

28. Fix the bug that it doesn't report 'starting power off the module!' from UART when

setting automatic shutdown by AT+CAPWROFF.

29. Fix the bug that it enters the mailbox and save mail to local by AT+POP3GET just after power on, then the COM is blocked and the module reboots.

30. Fix the bug that it reports '+TCPWRITE' from Non transparent transmission port during TCP transparent transmission.

31. Fix the bug that the size of pictures become smaller and can't imaging when the pictures upload to FTP server by AT+CFTPPUT.

32. Fix the bug that the returned value of AT+CGFUNC is different from the document.

33. Fix the bug that the error report is not accurate when the parameters of AT+CFTPPUTFILE is error.

34. Unify the address length sending by AT+CMMSRECP and AT+CMMSSEND.

35. Fix the bug that it can continue downloading by AT+CFTPGETFILE although there has no the file in EFS.

36. Fix the bug that it reports '+CME ERROR: Unknown error for FTP' when it uploads files by AT+CFTPPUTFILE and <rest_size> is greater than the size of the file to be uploaded.

37. Fix the bug that the TCP transparent transmission +++ leads to crashes.

38. Fix the bug that the AT port can't switch back by +++ after switch to TCP transparent transmission.

39. Fix the bug that the module will be reboot if it receives CSD calls, hang-up calls in other port by ATH and executes +++ in the transmission mode port.

40. Fix the bug that it reports 'CONNECT 115200' from more than one port with setting ATS0/AT+AUTOANSWER for automatic answering CSD call and the calls established.

41. Fix the bug that the module will be reboot when TCP transparent transmission sending and receiving large data at the same time by Multiplexing virtual serial port.

42. Fix the bug that the module will be reboot when executing AT+CMMSSEND for sending MMS, executing AT+CMMSRECP? for querying and the receivers over a certain length.

43. Fix the bug that module will be reboot when it writes maximum address into AT+CMMSRECP/AT+CMMSCC/AT+CMMSBCC, then views by read command.

44. Shield the command of AT+FSFMT.

45. Fix the bug that +CREG/+CGREG can use although PIN locked that be different from the document.

46. Fix the bug that it reports the abnormal with setting AT+COLP=1 and having a call.

47. Fix the bug that the saved mail under C drive is deleted when +POP3GET failed.

48. Fix the bug that the module will be reboot when executing AT+POP3READ with bigger mail.

49. Modify the mode of timer automatic shutdown to software shutdown.

Version: 1575B06SIM5320A

[New Features]

1. Add LUA debug library.

2. Add a mode like 2G module for RI.

3. Add DEL function of AT+DBC.

4. Add the command of AT+CSCIRPTSTART="filename" for transferring debugger.lua automatically to debug the script.

5. Add the XTRA function of GPS.

6. Add DNS cache function.

[Improved Features]

1. Fix the bug that the next dialing can't access the network if switch by +++ and cut by ATH during WINCE dialing.

2. Fix the bug that the module will be reboots if executes CMMSPROTO and the last COM parameter is default.

3. Update the device version to V1.2.1.0 of WINCE USB.

4. Fix the bug that it can't register the network after unlock the PIN if setting AT+COPS=0 before until executing AT+CFUN=0/1.

5. Update the device version to V1.2.0.1 of Windows CE 6.0 RIL.

6. Update the device version to V1.2.0.1 of Windows mobile RIL.

7. The return value is incorrect of AT+POP3NUM.

8. Fix the bug that the result of POP3LIST and POP3GET are incorrect if executing POP3 operates on SINA mailbox.

Version: 1575B05SIM5320A

[Improved Features]

1. Modify the command of AT+CPLMNWLIST to support 20 PLMN at most.

2. Modify the command of AT+CPLMNWLIST to limit registration but urgency call.

3. Fix the bug of SIM LOCK function that display "SIM BUSY" when query the status of PIN by AT+CPIN? .

4. Fix the bug that the 64K SIM card reboots.

5. Fix the bug that if make .smil file as accessories of MMS the module reboots.

6. Fix the bug that under TEXT UCS2 mode, read SMS contains Chinese from FETION with AT+CMGR then the module reboots.

7. Modify the AT+CLCK command that there has prompt information when with PIN ID or without SIM card.

Version: 1575B04SIM5320A

[New Features]

1. Add AT+CMWAIT command that config the waiting seconds before xmodem start receiving.

2. Add SIM DM (fota download manager) function.

3. Add NITZ full name and short name update function.

4. Add function about making a voice all, support P for send DTMF automatically, like "ATD123456P123P123;"

5. Add EONS function.

6. Add the AT+CCGMDF command.

7. Add FEATURE_ATCOP_SUPPORT_NITZ.

[Improved Features]

1. Fix if AT+DSWITCH setting the value is current value, return OK direct.

2. Fix AT+CFTPGET download file timeout for 5mins.

3. Fix FTPS LIST receive timeout 60s.

4. Fix AT+CLCC state doesn't change after setting call holding.

5. Fix AT+CMGL read SMS didn't show head date after setting AT+CSDH=1.

6. Fix bug about sending MMS to inexistent number, receive wrong response.

7. Fix bug about AT+CLCC can't show the emergency call.

8. Fix bug about AT+CGPSMD setting issue when GPS engine running.

9. Fix bug AT+TCPWRITE and AT+CIPSEND return wrong response when server didn't receives data.

10. Fix bug about AT+CLCK execute repeatedly return OK all the while, but the operation didn't execute in fact.

11. Fix AT+CTXFILE return "get wrong flag during transferring file" after canceling file transfer.

12. Fix AT+IPR setting new baud rate, the UART port can't communicate.

13. Fix bug about in multi call, one is holding, others are actived, then port crash after execute AT+CHLD=0.

14. Fix bug about AT+POP3GET the mail with over 10 attachments, and attachment name is

EMAIL000.TXT-EMAIL012.TXT. Get the file with wrong file name.

15. Fix bug about AT+CHTTPACT to inexistent network address, return error code.

16. Fix bug about AT+VMUTE abate 5s in call waiting.

17. Fix bug POP3GET can't download the mail over 500KB.

18. Fix bug in multi-call, AT+CHLD=0 return ERROR when all calls in holding.

19. Fix AT+CMGS send SMS error indication inaccurate.

20. Fix bug about AT+CPIN return error code indication.

21. Fix bug report COLP results when connected on CSD mode.

22. Fix bug CLIP can't display in CSD call.

23. Fix bug AT+CHLD=1 hung up all calls, OK display error.

24. Fix bug AT+CFTPSGETFILE return error even download successfully.

25. Fix AT+CPOL? Response value with more empty line.

26. Fix AT+CLIP parameter <type> value over the scope in document.

27. Fix bug about no response if CSD incoming but don't answer.

28. Fix GPS can't start after stopped.

29. Fix bug phone number display error if one phone number saved in more phone name.

30. Fix +CLCC report repeats issue.

31. Fix AT+AUTOANSWER for auto answer CSD incoming call issue.

32. Fix AT+CPSI and AT+CCINFO support PLMN display 6 characters.

33. Fix <TODA/TOOA> scope in 128 to 255.

34. Fix bug about reading SMS can't display the name which number saved in phonebook.

35. Fix bug about folder name is nonlicet if '/' at the last.

36. Fix AT+CGAUTH which allow null user name and password.

37. Fix bug about AT+CHLD=22 in multi call.

38. Fix bug about hang up CSD call.

39. Fix SIM DM bug about SMS process function.

40. Fix bug +COLP display issue on CSD call.

41. Fix the bug that the microphone has no voice from SPEAKER.

42. Modify that when STK sending SMS, the terminal response is after receive SMS submit

report.

43. Modify the AT+CPLMNWLIST command.

44. Modify the AT+CPIN? command.

Version: 1575B03SIM5320A

[New Features]

1. Add command CADCA to read the second ADC value，and remove command CADCI.

2. Add command AT+PRINTDIR for LUA testing.

[Improved Features]

1. Fix the bug that when send MMS to the number not existed, it will still return send successfully.

2. Fix the bug that the return value of "AT+CSOCKAUTH=?" is always "ERROR".

3. Fix the bug that when write record into "FD" phonebook using command AT+CPBW, it will not prompt the unambiguous tip when failed.

4. Fix the bug that the return value format of command AT+POP3LIST is incorrect.

5. Fix the bug that it returns "ERROR" when execute command AT+CGPSFTM?

6. Fix the bug that query CPMS before SMS confirm with +CNMA, will make the serial port blocked.

7. When the pop3list is empty, make it display "+POP3: EMPTY".

8. Fix the bug that when execute AT+CHTTPSRECV (for HTTPS) but no receive data, there is no prompt.

9. Fix the bug that when the ME is full, it will save the SMS to SM automatically.

10. Fix the bug that There is no error code returned when AT+CHTTPACT request is empty.

11. Fix the bug that when set "SC" password with CLCK for twice, it will return "+CME ERROR: SIM failure".

12. Fix the bug that it will return "ERROR" when execute AT+CPIN="" when the pin is unlocked.

13. Modify command ATI and AT+CGMR.

Version: 1575B02SIM5320A

[New Features]

1. Add COURSE field for command AT+CGPSINFO.

2. Add command at+cipstat=<link_num>.

3. Open UART update function, add AT+CDIPR to set download UART baud rate, add AT+CUDIAG to switch UART and DIAG service

[Improved Features]

1. Execute AT+CHLD=2X with the card not supported multi-call, the serial port will be blocked for a while.

2. It returns "BUSY" after executing "AT+CHTPUPDATE=?", which is not accord with the document.

3. During a voice call, set "AT+CMUT=1" and "AT+VMUTE=1", then it is invalidation to set "AT+CMUT=0".

4. Fix the ftps problem that can operate cwd and pwd without login.

5. Fix the problem that when save the same numbers for several records, the out-coming call displays the wring record.

6. Fix the problem that it can not register network when the sim card access class is bigger than 10

7. Fix the problem that when write record to "FD" with AT+CPBW failed, the report is not exact.

8. Make it show the whole parameter information when execute AT+CSOCKAUTH=?

9. Fix the problem that after setting AT+CLIP=1, it will report once the caller identify before the first ring when there is a incoming call.

10. Fix the problem that can not set emergency numbers using command "AT+CEMNLIST".

11. Fix the problem that after TCP link send data is more than 1024 bits, it will always return TCP busy when send data again.

12. Fix the problem that after set "AT+CRC=1",it can not prompt clip report for incoming call, but a blank line.

13. Fix the problem that the first parameter range of the return value of "AT+CBC=" is not according to the document.

14. Fix the problem that when dial the record in "ME" phonebook, it displays the record with the same numbers in "SM" phonebook.

15. Fix the problem that after executing +cftpspwd, there is no response for a long time, the

signal lamp is winking in a high frequency, both AT port and modem port do not work unless reset it.

16. Fix the problem that write the record with type 145 in phonebook, it can not write more than 19 bit, and read without "+" prefix.

17. Fix the problem that execute AT+POP3OUT, sometimes the serial port is blocked.

18. Dial the invalid index or blank record, it should report different prompt.

19. Fix the problem that executing POP3 series commands for sina net, sometimes the serial port is blocked.

20. Modify command "at+cipstat", make it clear the statistic value when net close.

21. Fix the problem that send data with single UDP link, the serial port will be blocked after IPCLOSE.

22. Fix the problem that can not copy the file without the second parameter <file2> when execute at+fscopy.

23. Fix the problem that after execute AT+CLVL and reset, it can not save the data.

24. Disable FILTER for DTMF.

25. Fix the problem that when enter pin code after PUK require, the report is not exact.

26. Modify AT+CALM default value to 0

27. Modify the return value of command "AT+CSUART=?".

28. Modify the return value of command "AT+CRXFILE=?", make it be the same as the document.

29. Modify the return value of command "AT+CTXFILE=?", make it be the same as the document.

30. Fix the problem that after failed to login FTPS for the first time, execute AT+CFTPSSTOP, then login again, it will reset.

31. Modify the return value of command "AT+CGFUNC=?".

32. Fix the problem that after stopping GPS, the status queried by "AT+CGPS?" turns wrong.

33. Execute AT+CHLD=2 or AT+CHLD=0 under multi-call, the serial port is blocked.

34. Fix the problem that parse the ip of "www.sina.com.cn", the serial port is blocked.

35. Modify the return value of test command about file system, set the filepath range as 0 only.

36. Modify the return value of AT+CGPADDR=?,remove the blank in the return value

37. Modify the command +FSRENAME,make it distinguish majuscule and lowercase in C disk

38. Modify the return value of AT+CFTPSPUT according to the document.

39. Fix the bug that set +autocsq=1 unbder W net, it will report even without <rssi> changing.

40. Fix the bug that when execute AT+SMTPBODY with the input over the maximum, it will return ERROR but change the value actually.

41. Make it support only one call if not the same type call.

42. Delete +CMIC command

43. Make the DTR default state as disable

44. Fix PC AUDIO reset problem

45. Modify command FSMKDIR and FSRMDIR, make it can add and remove folder in C disk.

46. Fix the fifth parameter missing problem about command AT+CIPCCFG.

47. Fix the problem that edits SMS with the wrong type, the value queried will be changed.

48. Fix the problem that edit SMS with no recipients, read it with CSDH=1, the type will be 128.

49. Fix the problem that can not set the CSMP back to the default value.

50. Fix the problem that the second parameter of AT+CSMP can exceed 255 but return OK.

51. Fix the problem that use AT+TCPWRITE to send date with TCP single link, it will return "+IPCLOSE" even when send only part of the data. When send data again, it returns "+IP ERROR: TCP busy"

52. Fix the problem that when TCP transmission, use "+++" to change to command mode, the other side will receive "+++".

53. Fix the problem that there is no blank line between the return value and "OK" of command AT+CMMSVIEW.

54. Fix the problem that during the CSD communication, use "+++" to change to command mode, the other side will receive "+++".

55. Fix the problem that some mails can not use AT+POP3HDR=X to read all of the head information.

56. Fix the problem that it will reset when use "AT+CHTTPSSEND" to send letters with the length exceed the maximum.

57. Fix the problem that during multi-call communication, execute AT+CLCC once per 500

millisecond using one port, and originate a call using another port, then the serial port is blocked.

58. Fix the problem that after setting AT+CLIP=1, it will report once the caller identify before the first ring when there is an incoming call.

59. Fix the problem that can not set "AT+CDIPR=0/3" successfully.

60. Fix the problem that send SMS with more than 160 bytes data, it will prompt "Invalid text mode parameter".

61. Fix the TCPIP problem when the server closed when multi-link, it will return "ERROR" when execute "AT+NETCLOSE".

62. Fix the problem that when set "AT+CREG=1", it will report the content of "+CREG" forwardly when change the network mode.

63. Fix the multi-call problem that at the moment of connecting or disconnecting the call, execute "AT+CLCC", it will return "+CME ERROR: unknown"

64. Fix the problem that originate a call use UART port, and send data during communication, it will reset.

65. Modify the FTP password length maximum to 40 bytes

66. Modify SIM5320 to use DIAG port to carry out PC AUDIO data transmission.

67. Set the UART flow control default value in 3 line mode as closed.

68. Fix HTTPS problem, make it can not send data while receiving data.

69. Fix the problem that can not connect 64kbps CSD call.

70. Make it not support AT+CSDVC＝2