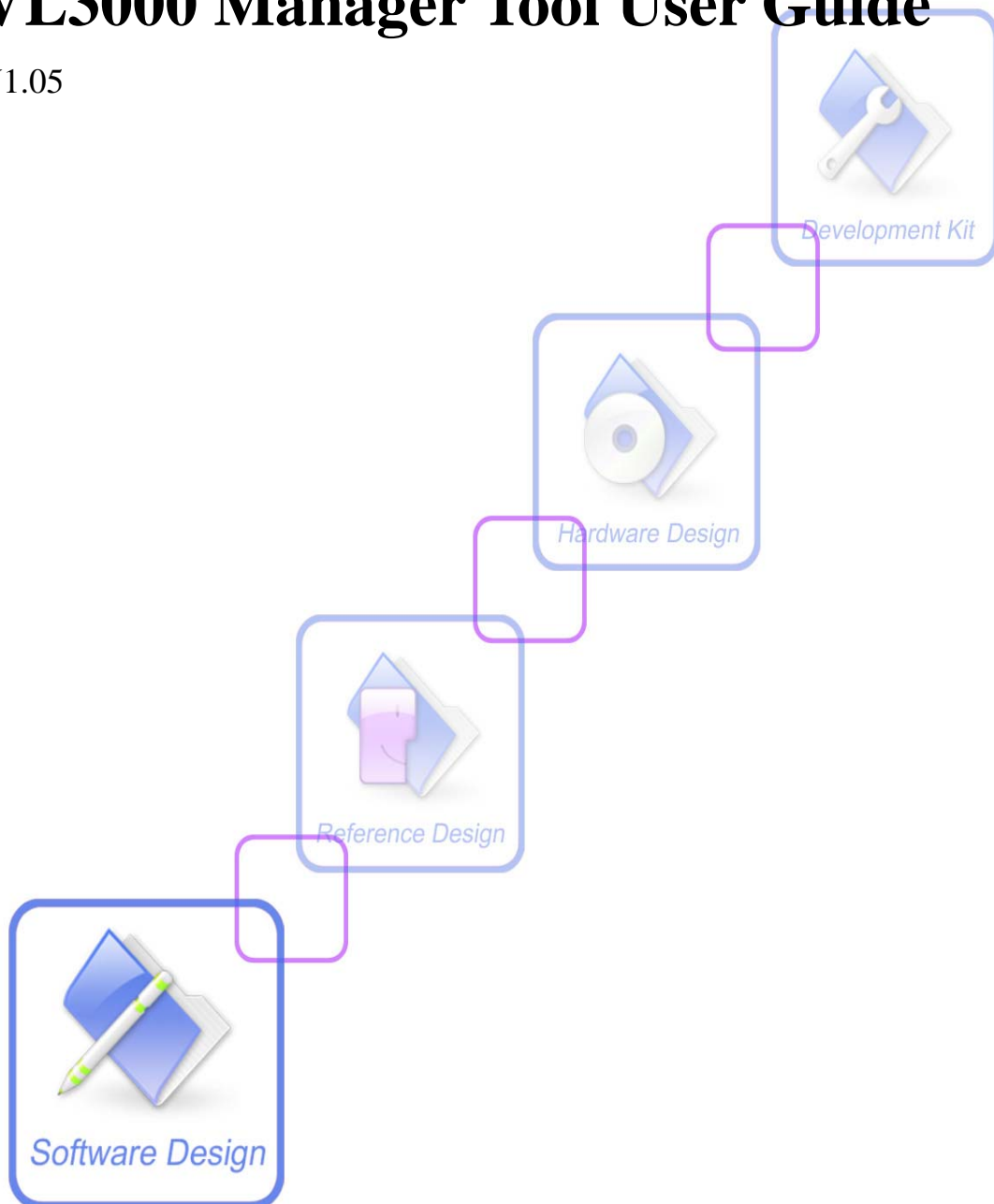




A company of SIM Tech

VL3000 Manager Tool User Guide

V1.05



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Revision history

Revision	Date	Description of change	Author
V1.00	2013-07-11	Initial	Zhaolei.yang

1. VL3000 Manager Guide

1.1 Description

VL3000 manager tool is a PC software which can be used to configure VL3000 through "Data and Charge Cable" interface. It is easy for the backend server developers to configure VL3000 with the manager tool, which has user-friendly interface. The correct command messages sent to VL3000 will be displayed on the management tool. (These messages can also be sent by SMS or GPRS).

Follow the steps below to start:

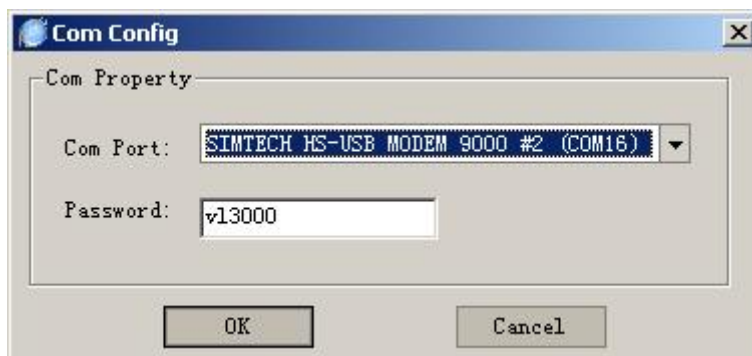
1. Install the data cable driver "PL-2303 driver Installer.exe".
2. Power on VL3000.
3. Connect VL3000 to PC.
4. Run "VL3000 Manager.exe".

1.2 Terms and Abbreviations

Table 1: Terms and abbreviations

Abbreviation	Description
APN	Access Point Name
GPRS	General Packet Radio Service
GSM	Global System for Mobile Communications
IMEI	International Mobile Equipment Identity
IP	Internet Protocol
SMS	Short Messaging Service
TCP	Transmission Control Protocol
GPS	Global Positioning System
HPA	Horizontal Position Accuracy
VPA	Vertical Position Accuracy
DOP	Dilution of Precision
MCC	Mobile Country Code
MNC	Mobile Country Code
LAC	Location Area Code
TA	Timing Advance

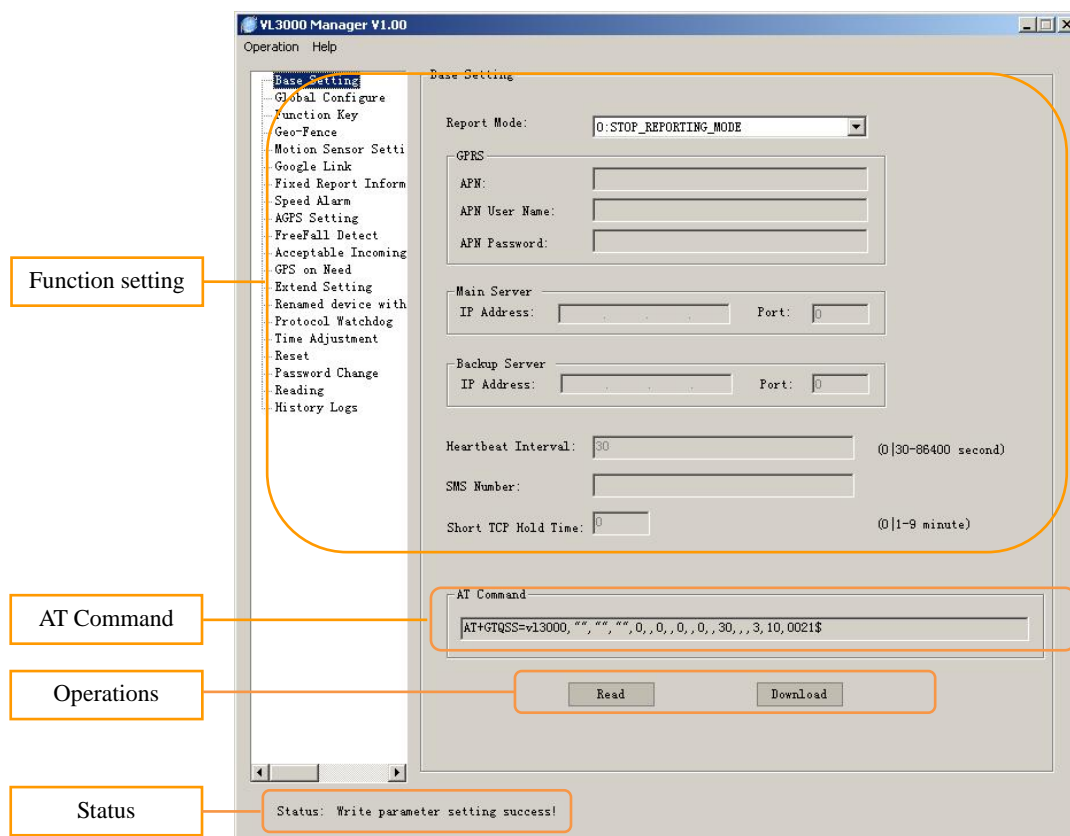
2. Simtech HS-USB Modem Setting



Select the correct com port from the port list, which is displayed in user PC's "Device Manager" and input the password, with the default value "VL3000".

If the password is incorrect, the parameter that users set will not be downloaded to the terminal.

3. The Main Window



➤ **Function setting**

The function setting zone is used to set and view the parameters of the function.

➤ **AT Command**

This column shows the command message which will be sent to the terminal. The command message can also be sent to the terminal through SMS or GPRS.

Note: The last parameter of “AT command” (the parameter before ‘\$’ character) is the sequence number for command. It will be invoked in the ACK message of the command.

➤ **Operations**

[Read]: Import the setting from the local configuration.

[Download]: Download the settings to the terminal via AT command.

➤ **Status**

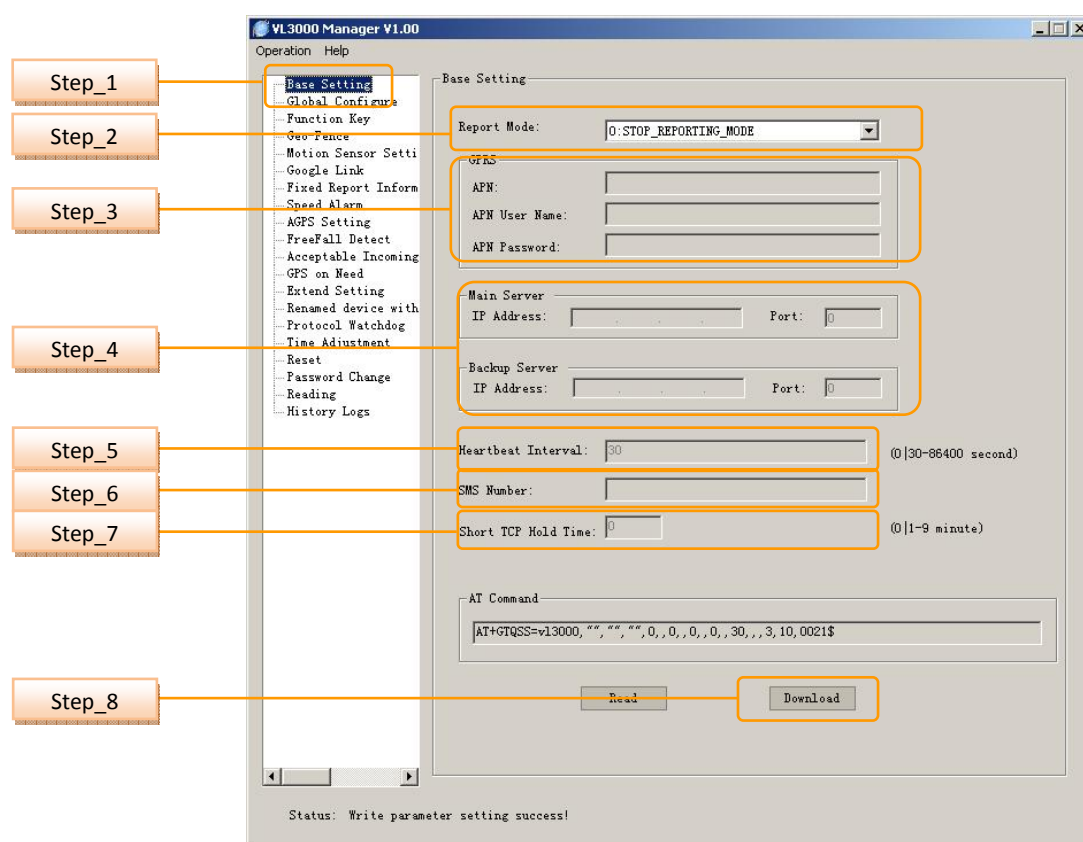
Display the status of operation, including the serial port status.

4. An Example to Configure VL3000

The manager tool is developed based on the VL3000 Air Interface Protocol. Refer to “VL3000 Air Interface Protocol” for detailed references.

Following is a general procedure to configure VL3000 with manager tool.

4.1 Set the Parameters of Base Setting



Step_1: Select “Base Setting” option.

Step_2: Select “Report Mode”.

There are six modes to be selected “0” - “6”.

If the settings are “1”, “2”, “3”, “4”, “5”, then “Main Server” input is mandatory.

If the setting is “1”, “3”, “6”, then “SMS Number” input is mandatory.

Step_3: Get the “APN”, “APN User Name” and “APN Password” information from your telecom operator. Input them in the corresponding fields.

If “APN” is null, the module will use the last value.

Step_4: Input “IP Address” and “Port” of main server, backup server input is optional.

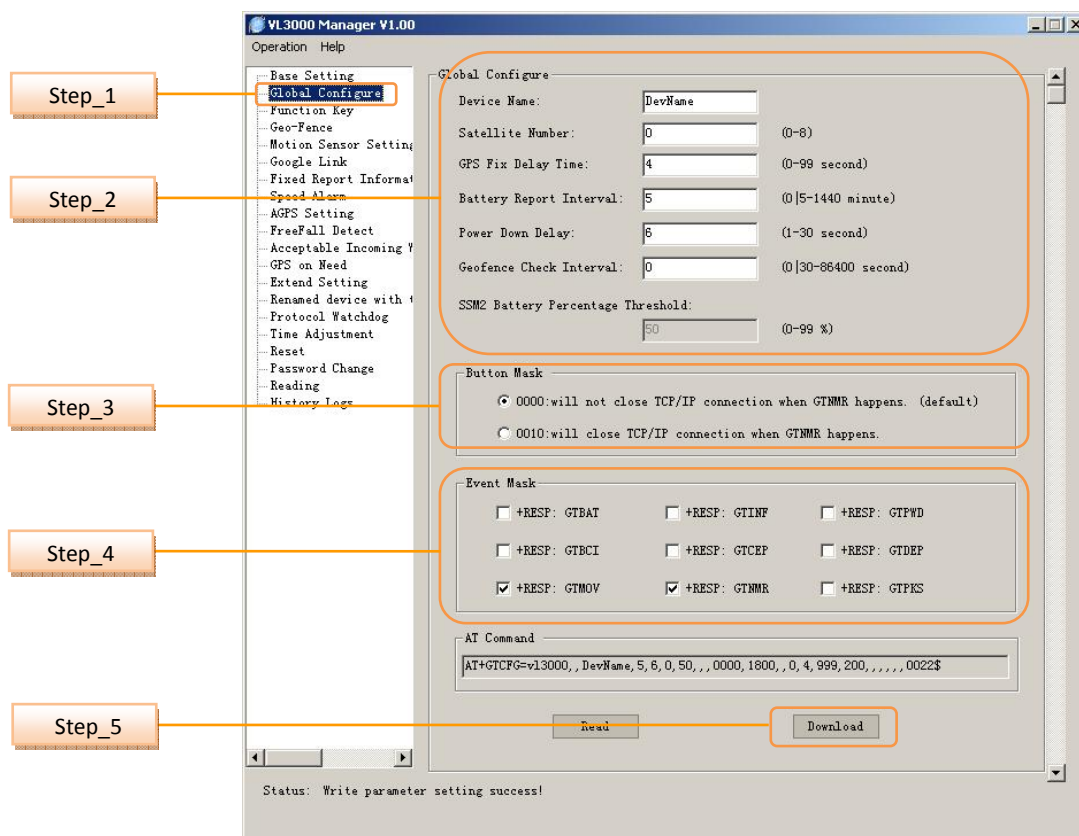
Step_5: Edit the “Heartbeat Interval”, Default value is 30 seconds.

Step_6: Input “SMS Number”. It is the number of mobile device to which SMS will be sent. The SMS contains AT response or event report.

Step_7: Set “Short TCP Hold Time”. It can be set only when “*Report Mode*” is set to “1” or “2”.

Step_8: Download the base setting. The parameters of GTQSS are changed.

4.2 Set the Parameters of Global Configure



Step_1: Select “*Global Configure*” option.

Step_2: Set a group of parameters:

- ✧ Set “*Device Name*”. Set the device name, the length of string is 3-10 bytes. Null input means it is the current value without change.
- ✧ Set “*Satellite Number*”. Normally, 4 satellites are relatively reasonable value. Default value is 0.
- ✧ Set “*GPS Fix Delay Time*”.
After successful fix, the position information is deemed valid only when the consecutive positioning seconds are not smaller than the set value. Default value is 0 second.
- ✧ Set “*Battery Report Interval*”. It is the time interval for periodically reporting battery level. Default value is 5 minutes.
- ✧ Set “*Power Down Delay*”. The terminal will send data to server after user presses power key for more than 3 seconds to power off the terminal. The power delay time is the maximum time to complete data transmission, after which the terminal will be shut down completely. Default value is 6 seconds.

- ✧ Set “*Geofence Check Interval*”. Location interval for geofence evaluation, if any geofences are provisioned. Each geofence is evaluated against the location returned at this interval. 0 means no check.
- ✧ Set “*SSM2 battery percentage threshold*”: Under the premise of setting the “Super sleep mode” parameter to automobile mode (value 2), if the battery percentage is lower than this value, the terminal will enter super sleep mode unconditionally.
Note: It is editable only when “Super sleep mode” parameter is set to 2.

Step_3: Set “*Button Mask*”.

- 0000: Not close TCP/IP connection when GTNMR happens. (default)
- 0010: Close TCP/IP connection when GTNMR happens.

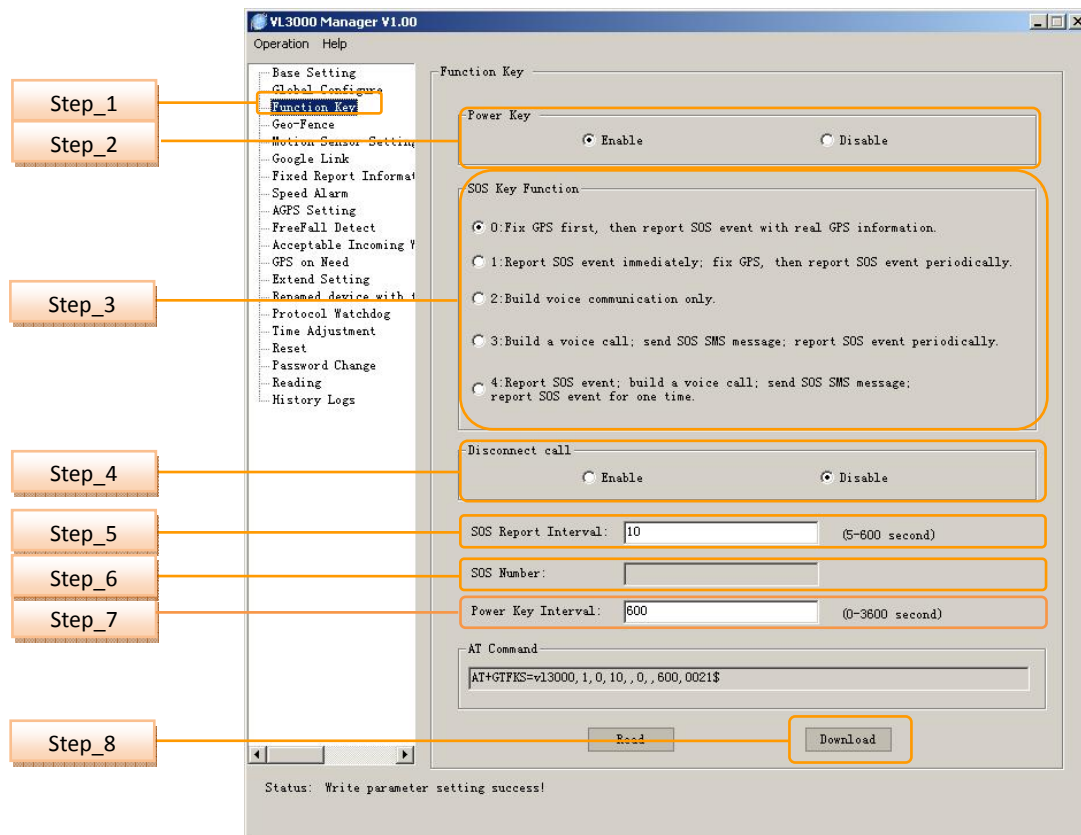
Step_4: Set “*Event Mask*”.

Totally nine events are listed. If the event is chosen, the corresponding report message can be sent to the backend server when that event happens. Otherwise, it will not send the report message to the backend server.

- “+RESP:GTBAT” Real time battery level report
- “+RESP:GTINF” Device information report. It is reported when the terminal is powered on.
- “+RESP:GTPWD” Device power down report. It is reported when the terminal is powered down.
- “+RESP:GTBCI” Report illegal incoming call if the incoming call number is not in the white list set in Google link function.
- “+RESP:GTCEP” Connect to external power supply report
- “+RESP:GTDEP” Disconnect from external power supply report
- “+RESP:GTMOV” Movement detected by motion sensor report
- “+RESP:GTNMR” Non movement detected by motion sensor report.
- “+RESP:GTPKS” Power Key Short Press Event Report.

Step_5: Download global configuration. The parameters of GTCFG are changed.

4.3 Set the Parameters of Function Key



Step_1: Select “Function Key” option.

Step_2: Set “Power Key” function. Default value is “1”.

Step_3: Set “SOS Key Function”. Default value is “0”.

Step_4: Set “Disconnect call” function. Default value is “0”.

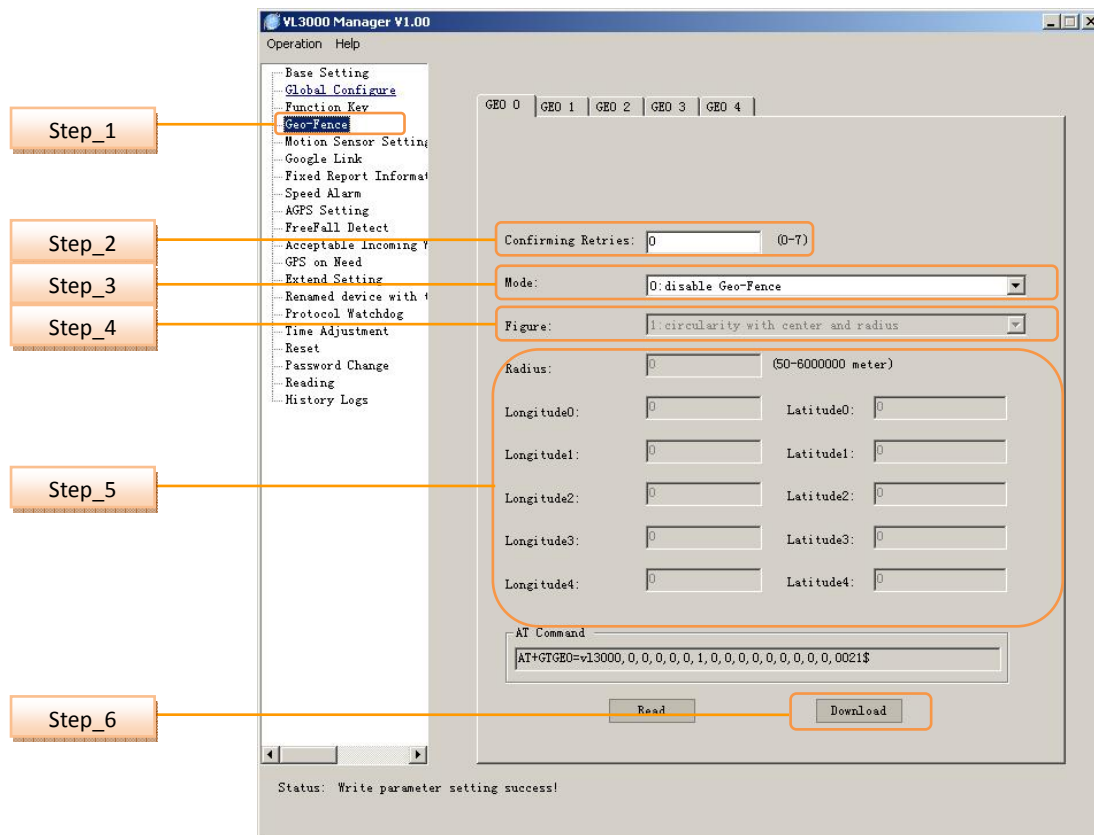
Step_5: Set “SOS Report Interval”. It indicates the interval of GPS information report. Default value is 10 seconds.

Step_6: Set “SOS Number”. It is the number to which voice communication connects.

Step_7: Set “Power Key Interval”. Minimum power key report

Step_7: Download function key settings. The parameters of GTFKS are changed.

4.4 Set the Parameters of Geo-Fence



Step_1: Select “Geo-Fence” option.

Step_2: Set the parameter “Confirming Retries”. When a geofence violation is first detected, there shall be this many position retries which attempt to confirm that the position is consistently in violation. The retries shall occur 10 seconds apart. If any of the retries return a position that does not qualify, then the GTGEO report will not be sent. Failure to get some or all of the retry fixes shall not prevent the alarm. 0 means no retry.

Step_3: Select “Mode”.

0: disable the fence

1: report when it enters the Geo-Fence range.

2: report when it leaves the Geo-Fence range.

3: report when it enters or leaves the Geo-Fence range.

Step_4: Select “Figure”.

1: circularity with center and radius

2: circularity with center and one point on the circle

3: triangle

4: quadrangle

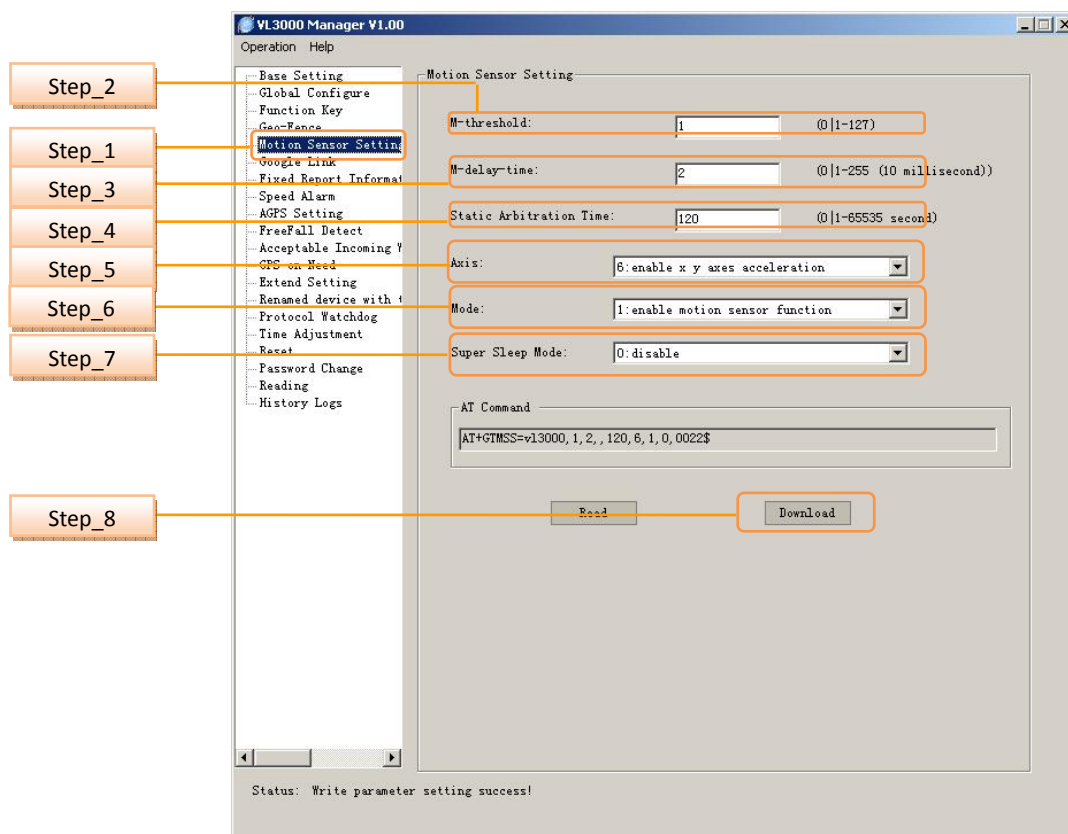
Note: It can be selected only when “Mode” is not 0.

Step_5: Set the graphic parameter.

Step_6: Download Geo fence setting. The parameters of GTGEO are changed.

Note: Maximum five fences can be set. After the fences settings are completed, the terminal will calculate and set the entire fence based on input parameters.

4.5 Set the Parameters of Motion Sensor Setting



Step_1: Select “Motion Sensor Setting” option.

Step_2: Set “M-threshold” parameter.

<M-threshold>: M-threshold is a parameter to decide the threshold of Movement Event Report. The movement is judged when terminal detects that its acceleration exceeds the preset acceleration threshold and movement time exceeds the preset movement cycle. Then it will report these events to GPS module. GPS module will process the request and follow the requirement whether to report the data to the server.

<M-threshold> = Acceleration value (g)/0.063

0 means to use the default value1.

Step_3: Set “M-delay-time” parameter. It is the time that the terminal’s acceleration maintains.

The range is 0-255. The measure unit is 10 milliseconds.

0 means to use the default parameter 2 (*10 millisecond).

Step_4: Set “Static arbitration time” parameter. When terminal enters still from movement, the still status will be judged if the still time exceeds that parameter.

0 means to use the default parameter 120 seconds.

Step_5: Set “Axis” parameter.

2: only enable x axis acceleration

4: only enable y axis acceleration

6: enable both x and y axes acceleration

Step_6: Set “*Motion Sensor Enable*” parameter.

0: disable motion sensor function.

1: enable motion sensor function.

Step_7: Select “*Super Sleep Mode*” parameter.

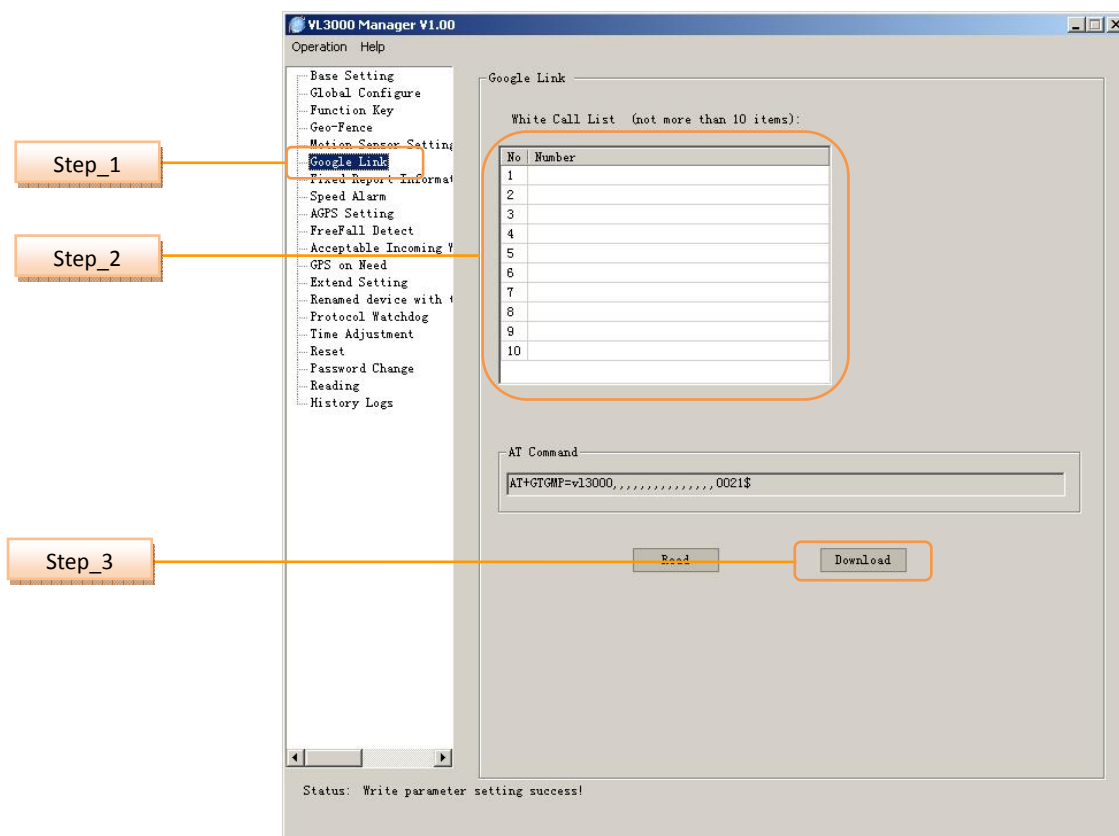
0: disable

1: normal mode

2: automobile mode

Step_8: Download motion sensor setting. The parameters of GTMSS are changed.

4.6 Set the Parameters of Google Link

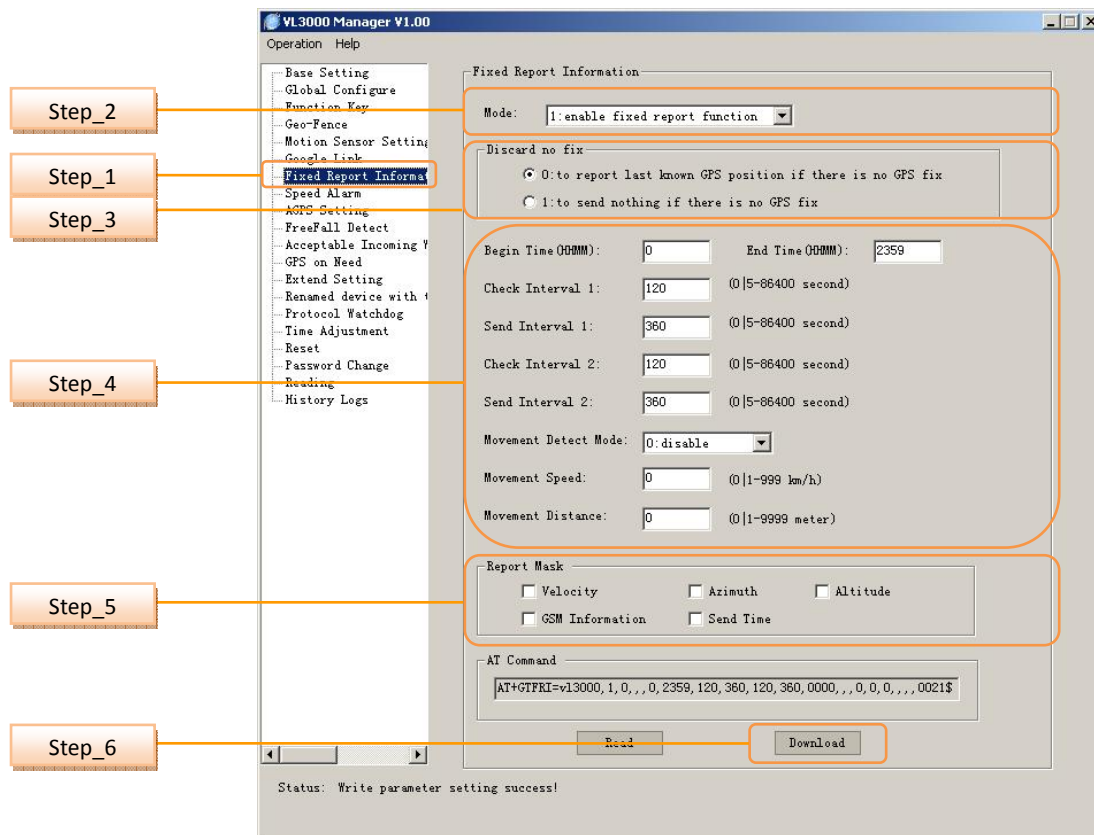


Step_1: Select “*Google Link*” option.

Step_2: Set the number in “*White Call List*”. Once incoming call is from white call list, terminal will terminate the call, and send a SMS to that number which contains a web link leads to current location of terminal. User can click the link to get the terminal’s current location.

Step_3: Download Google Link setting. The parameters of GTGMP are changed.

4.7 Set the Parameters of Fixed Report Information



Step_1: Select “Fixed Report Information” option.

Step_2: Select “Mode”.

0: disable Fixed Report Function.

1: enable Fixed Report Function.

Step_3: Select “Discard no fix”.

0 to report last known GPS position if there is no GPS fix;

1 to send nothing if there is no GPS fix.

Step_4: Set a group of parameters:

- ✧ Set “Begin Time” and “End Time”. The start time and end time of scheduled fixed report. It is noticed to use UTC time here.
- ✧ Set “Check Interval 1”. The time interval to fix GPS when the terminal is in motion state. 0 means no check. Default value is 120 seconds.
- ✧ Set “Send Interval 1”. The period to send the position information when the terminal is in motion state. 0 means not to send. Default value is 360 seconds.
- ✧ Set “Check Interval 2”. The time interval to fix GPS when the terminal is in motionless state. 0 means no check. Default value is 120 seconds.
- ✧ Set “Send Interval 2”. The period to send the position information when the terminal is in motionless state. 0 means not to send. Default value is 360 seconds.
- ✧ Select “Movement Detect Mode”.
 - 0: disable (default)

1: enable

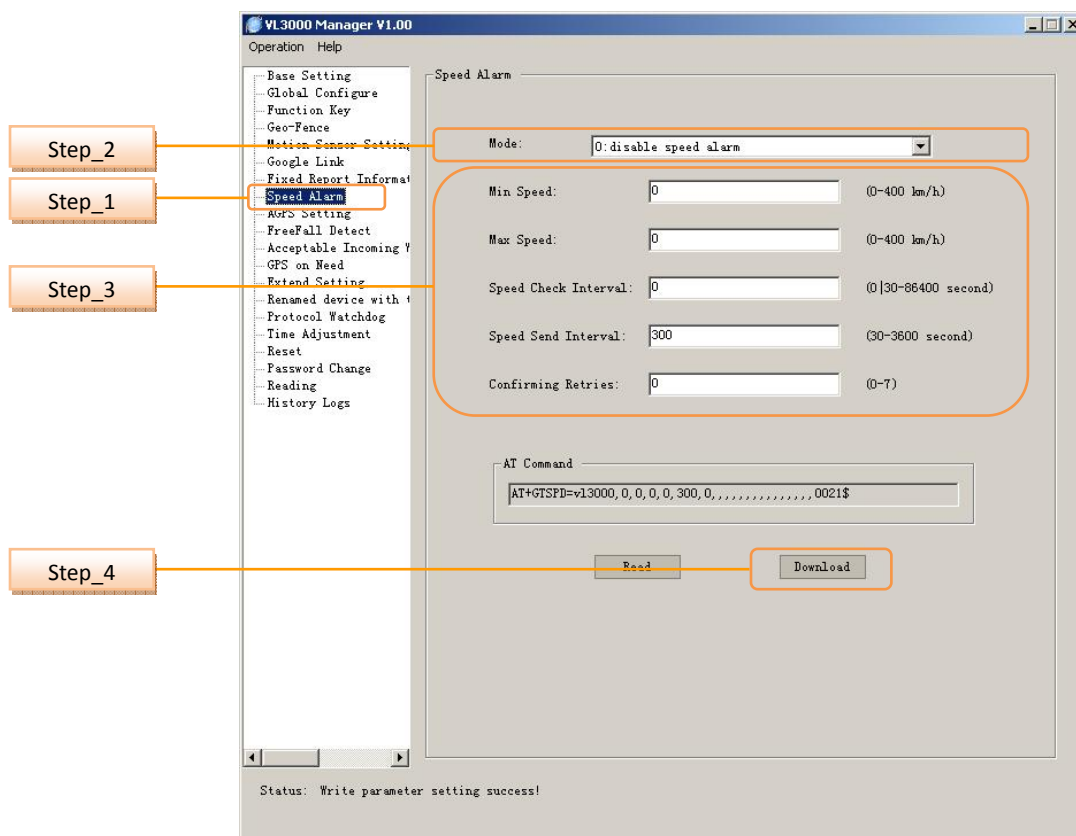
- ✧ Set “*Movement Speed*”. The speed threshold of movement detection. 0 means not to detect speed.
- ✧ Set “*Movement Distance*”. The distance threshold of movement detection. 0 means not to detect distance.

Step_5: Configure the composition of GPS position information for fixed report.

- ✧ <Velocity>
- ✧ <Azimuth>
- ✧ <Altitude>
- ✧ GSM Information
including: GSM LAI and CI, including <MCC>, <MNC>, <LAC>, <CELLID>, <CSQ RSSI>, <TA>.
- ✧ <Send Time>

Step_6: Download fixed report information setting. The parameters of GTFRI are changed.

4.8 Set the Parameters of Speed Alarm



The screenshot shows the VL3000 Manager V1.00 software interface. On the left, a tree view lists various configuration options. The 'Speed Alarm' option is selected and highlighted. To the right of the tree view, the 'Speed Alarm' configuration window is displayed. This window contains several settings: a 'Mode' dropdown menu set to '0: disable speed alarm', four input fields for 'Min Speed', 'Max Speed', 'Speed Check Interval', and 'Speed Send Interval', and a 'Confirming Retries' field. Below these fields is an 'AT Command' text box containing the command 'AT+GTSFD=v13000,0,0,0,0,300,0,,,,,,,,,,,,,0021\$'. At the bottom of the window are 'Read' and 'Download' buttons. A status bar at the bottom of the software window displays the message 'Status: Write parameter setting success!'.

Step_1: Select “*Speed Alarm*” option.

Step_2: Select the “*Mode*”

- ✧ 0: disable speed alarm

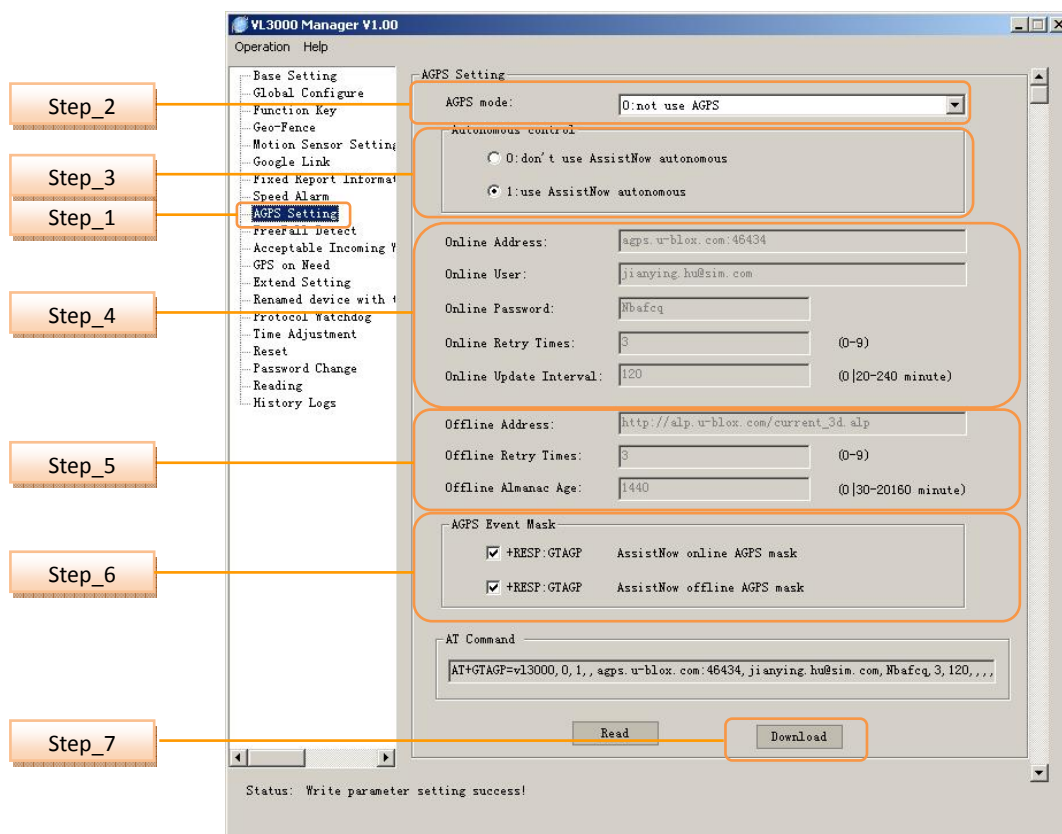
- ◇ 1: enable when current speed is in the range.
- ◇ 2: enable when current speed is out of the range.

Step_3: Set a group of parameters.

- ◇ Set “*Min Speed*” .The lower limit of the speed range.
- ◇ Set “*Max Speed*” .The upper limit of the speed range.
- ◇ Set “*Speed Check Interval*” . Location interval for speed check purpose. If motion sensor is enabled and no motion is detected then location interval is skipped. 0 means not to check.
- ◇ Set “*Speed Send Interval*” . After the speed alarm is triggered, the GTSPD report is sent every time interval with the latest speed. Speed alarm reports shall not be sent more often than this interval.
- ◇ Set “*Confirming Retries*” . When the speed is first detected in the range for speed alarm, there shall be this many position retries attempt to confirm that the speed is consistently in the alarm range. The retries shall occur 10 seconds apart. If any of the retries returns a speed that does not qualify, then the GTSPD report will not be sent. Failure to get some or all of the retry fixes shall not prevent the alarm. 0 means no retry.

Step_4: Download the change of user password. The parameters of GTSPD are changed.

4.9 Set the Parameters of AGPS Setting



Step_1: Select “AGPS Setting” option.

Step_2: Select the “AGPS Used”

0: not to use AGPS

1: use AssistNow online AGPS

- 2: use AssistNow offline AGPS
- 3: use both AssistNow online and offline AGPS

Step_3: Select the “Autonomous control”

Step_4: Set a group of online parameters.

- ✧ Set “Online Address”. AssistNow online server Address
- ✧ Set “Online User”. AssistNow online server User Name
- ✧ Set “Online Password”. AssistNow online server password
- ✧ Set “Online Retry Times”. AssistNow online server connect retry times limit
- ✧ Set “Online Update Interval”. Update local online data from AssistNow online server time interval.

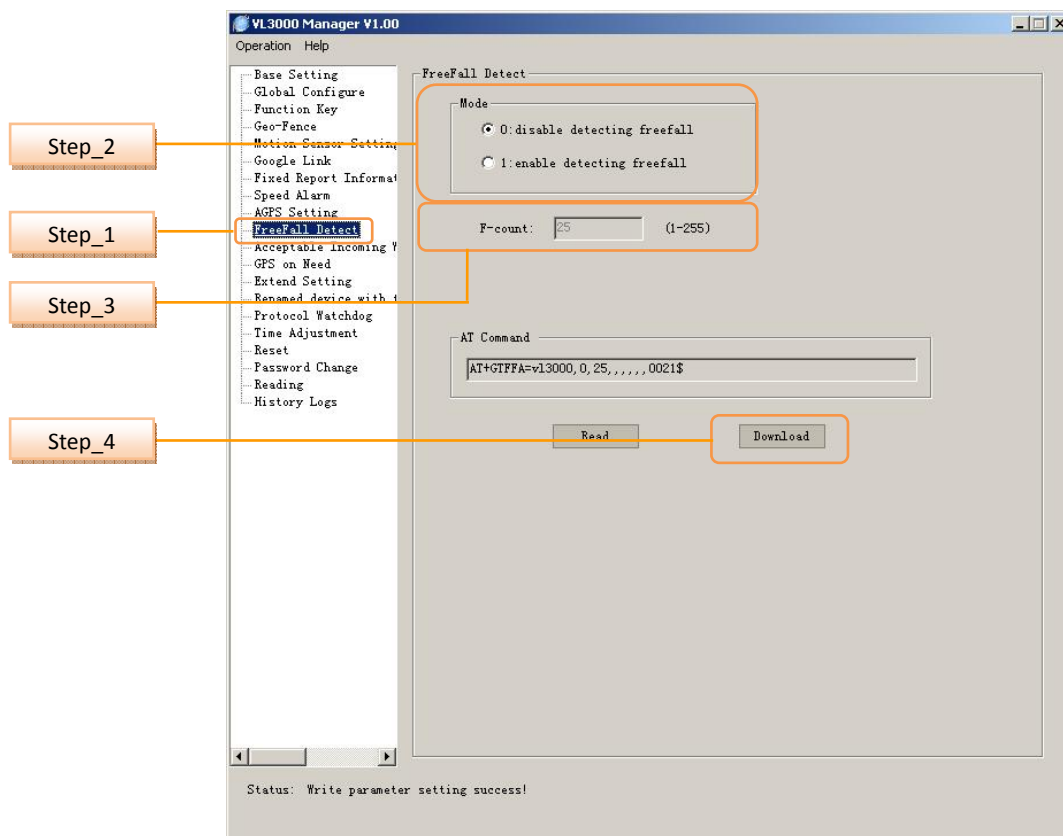
Step_5: Set a group of offline parameters.

- ✧ Set “Offline Address”. AssistNow offline server Address
- ✧ Set “Offline Retry Times”. AssistNow offline server connect retry times limit
- ✧ Set “Offline Almanac Age”. It indicates the period exceeds which the almanac will be invalid. It is recommended to set it to be more than 4 hours. 0 means no update.

Step_6: Select the “AGPS Event Mask” to configure which AGPS event will be reported to the backend server.

Step_7: Download the change of AssistNow Online/Offline Server information. The parameters of GTAGP are changed.

4.10 Set the Parameters of Free Fall Detect



The screenshot shows the VL3000 Manager V1.00 software interface. The sidebar on the left contains a menu with items like 'Base Setting', 'Global Configure', 'Function Key', 'Geo-Fence', 'Motion Sensor Setting', 'Google Link', 'Fixed Report Informat', 'Speed Alarm', 'AGPS Setting', 'FreeFall Detect', 'Acceptable Incoming Y', 'GFS on Need', 'Extend Setting', 'Renamed Device with t', 'Protocol Watchdog', 'Time Adjustment', 'Reset', 'Password Change', 'Reading', and 'History Logs'. The 'FreeFall Detect' option is selected and highlighted. The main window displays the 'FreeFall Detect' configuration screen. It has a 'Mode' section with two radio buttons: '0:disable detecting freefall' (selected) and '1:enable detecting freefall'. Below this is an 'F-count' field with the value '25' and a range '(1-255)'. At the bottom, there is an 'AT Command' field containing the text 'AT+GTFFA=vl3000,0,25,,,,,0021\$'. There are 'Read' and 'Download' buttons at the bottom right. A status bar at the very bottom of the window displays the message 'Status: Write parameter setting success!'. Four callout boxes on the left side of the screenshot are labeled 'Step_1', 'Step_2', 'Step_3', and 'Step_4'. 'Step_1' points to the 'FreeFall Detect' menu item. 'Step_2' points to the 'Motion Sensor Setting' menu item. 'Step_3' points to the 'Mode' radio buttons. 'Step_4' points to the 'Download' button.

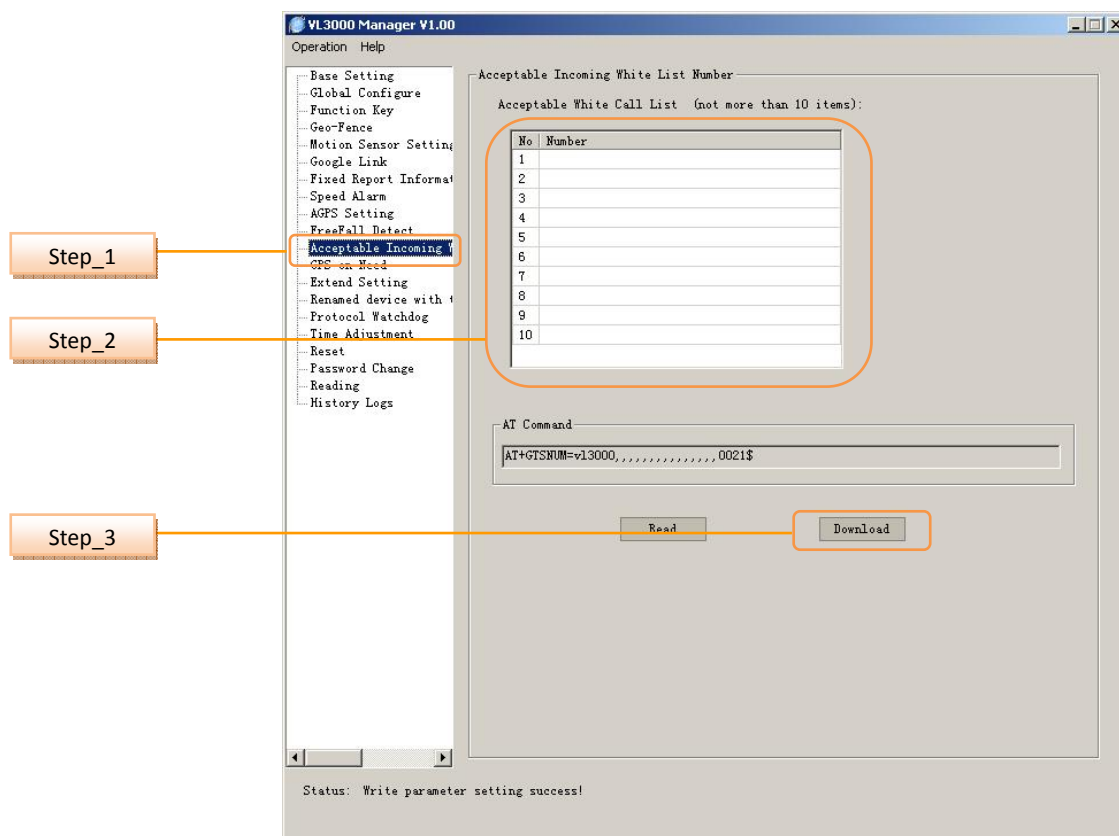
Step_1: Select “FreeFall Detect” option.

Step_2: Select “Mode” to disable/enable freefall detection.

Step_2: Set “F-count”, the time that the terminal’s acceleration maintains.

Step_3: Download the change of freefall detection. The parameters of GTFFFA are changed.

4.11 Set the Parameters of Acceptable Incoming White List Number



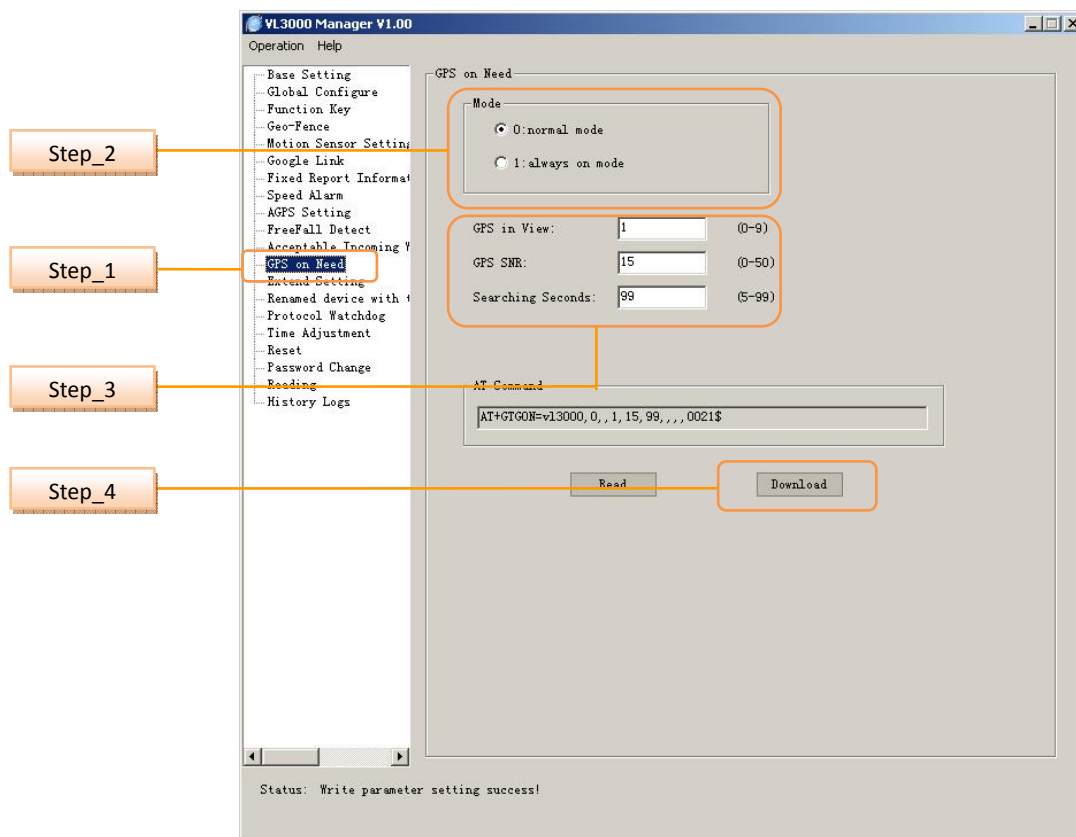
The screenshot shows the VL3000 Manager V1.00 software interface. The left sidebar contains a tree view with the following items: Base Setting, Global Configure, Function Key, Geo-Fence, Motion Sensor Setting, Google Link, Fixed Report Information, Speed Alarm, AGPS Setting, FreeFall Detect, **Acceptable Incoming White List Number**, GPS on-Need, Extend Setting, Renamed device with, Protocol Watchdog, Time Adjustment, Reset, Password Change, Reading, and History Logs. The main window is titled 'Acceptable Incoming White List Number' and contains a table with the following columns: 'No' and 'Number'. The table has 10 rows, numbered 1 to 10. Below the table is an 'AT Command' field containing the text 'AT+GTSNUM=v13000,,,,,,,,,,,,,0021\$'. At the bottom of the main window are 'Read' and 'Download' buttons. A status bar at the bottom of the window displays 'Status: Write parameter setting success!'. Three callout boxes are present: 'Step_1' points to 'Acceptable Incoming White List Number' in the sidebar, 'Step_2' points to the table, and 'Step_3' points to the 'Download' button.

Step_1: Select “Acceptable Incoming White List Number” option.

Step_2: Set the number in “Acceptable White Call List” column. The two adjacent phone numbers are separated with a comma. Once there is an incoming call from this call list, the terminal will answer the call automatically.

Step_3: Download the setting. The parameters of GTSNUM are changed.

4.12 Set the Parameters of GPS on Need



Step_1: Select “GPS on Need” option.

Step_2: Select the mode.

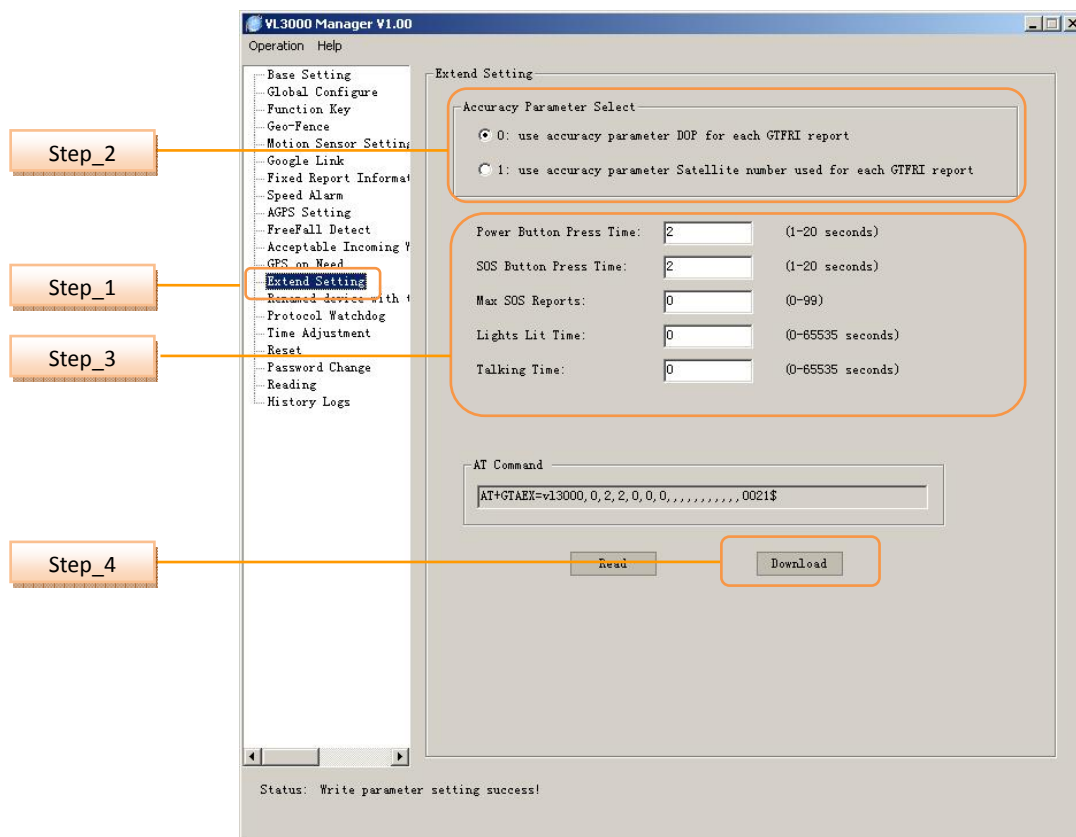
- 0: normal mode
- 1: always on mode

Step_3: Set GPS parameters.

- ✧ <GPS in view>: minimum numbers of GPS in View that SNR is larger than 0
- ✧ <GPS SNR>: minimum sum limit of GPS Satellite’s SNR
- ✧ <Searching seconds>:
If <mode> equals to 0,
After GPS have worked for <Searching seconds>, if the numbers of GPS is less than <GPS in view>, at the same time, GPS signal sum value is less than <GPS SNR>, GPS will be powered off for this round.

Step_4: Download the change of GPS power characteristics. The parameters of GTGON are changed.

4.13 Set the Parameters of Extend Setting



Step_1: Select “Extend Setting” option.

Step_2: Select the “Accuracy Parameter”.

0: use accuracy parameter Dop for each GTFRI report

1: use accuracy parameter Satellite number used for each GTFRI report

Step_3: Extend Setting.

✧ <Power Button Press Time>: configure how many seconds the power button needs to be depressed prior to powering off the unit.

✧ <SOS Button Press Time>: configure how many seconds the SOS button needs to be depressed prior to triggering the SOS.

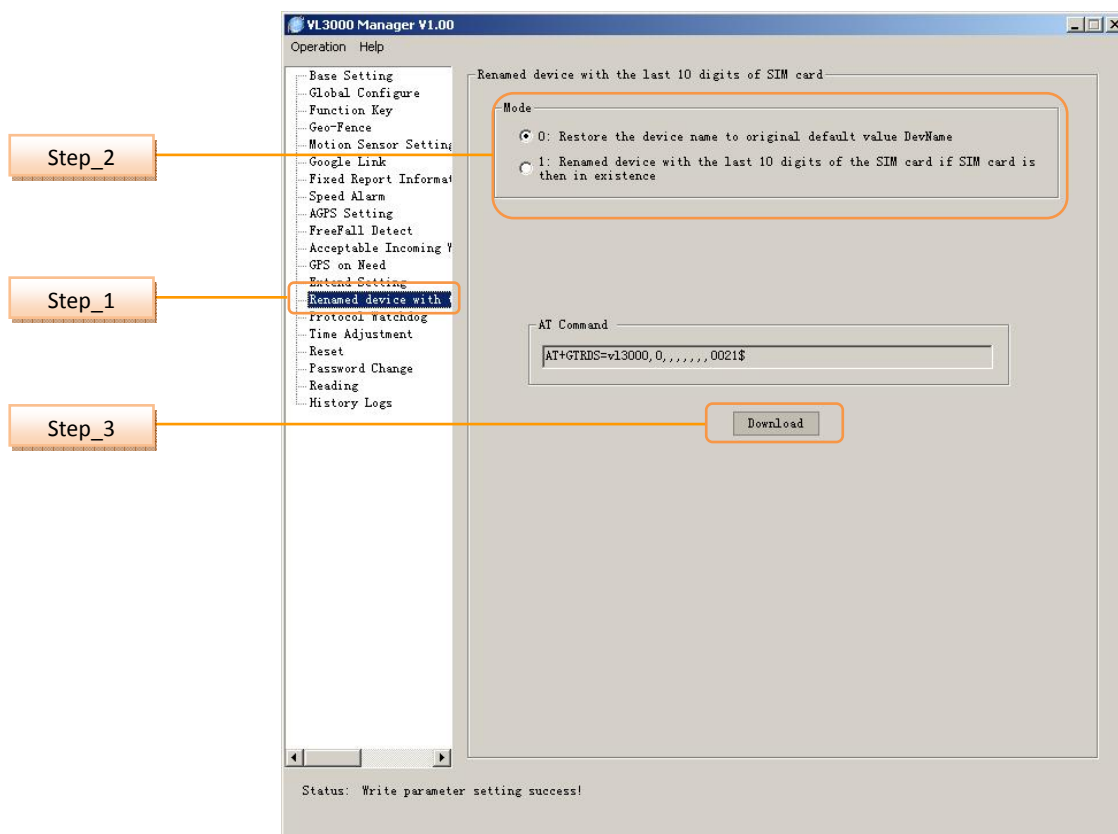
✧ <Max SOS Reports>: specify the maximum number of SOS reports (+RESP:GTSOS) are sent from the device to the server after the SOS event has been triggered. If the parameter is set to 0, it will keep SOS reports in accordance with the parameter <SOS key> of command.

✧ <Lights Lit Time>: configure how long all of the device lights remain lit after an SOS event is triggered. If the parameter is set to 0, the device lights will stay on.

✧ <Talking Time>: configure the maximum length of time that a single call to or from the device can last. If the parameter is set to 0, talking time will be unlimited.

Step_4: Download the Extend Setting. The parameters of GTAEX are changed.

4.14 Set the Renamed Device with the Last 10 Digits of SIM Card(ICCID)



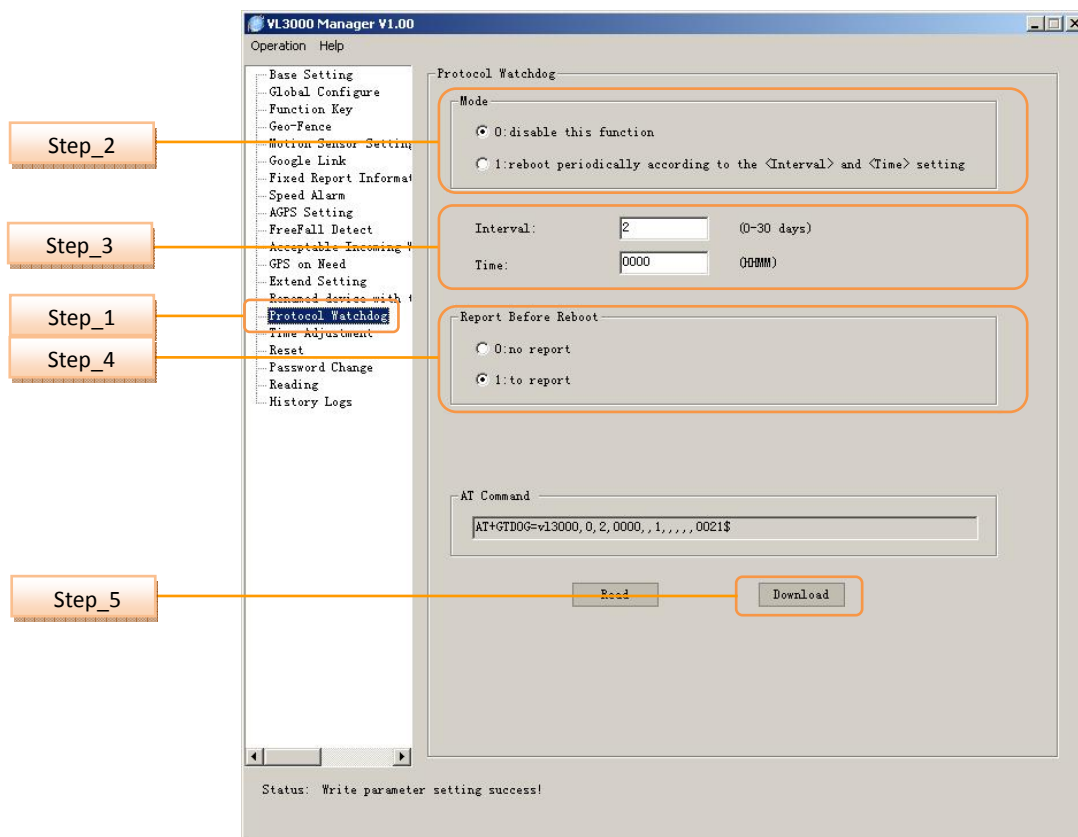
Step_1: Select “Renamed Device with the Last 10 Digits of SIM Card(ICCID)” option.

Step_2: Select the mode.

- 0: Restore the device name to original default value “DevName”.
- 1: Renamed device with the last 10 digits of the SIM card (ICCID) if SIM card is then in existence.

Step_3: Download the setting. The parameters of DevName are changed.

4.15 Set the Parameters of Protocol Watchdog



Step_1: Select “Protocol Watchdog” option.

Step_2: Select the mode.

0: Disable this function.

1: Reboot periodically according to the <Interval> and <Time> setting.

Step_3: Set “Interval”: The interval to reboot the device in day.

Set “Time”: At what time to perform the reboot operation when <Interval> is set.

Step_4: Select Report Before Reboot.

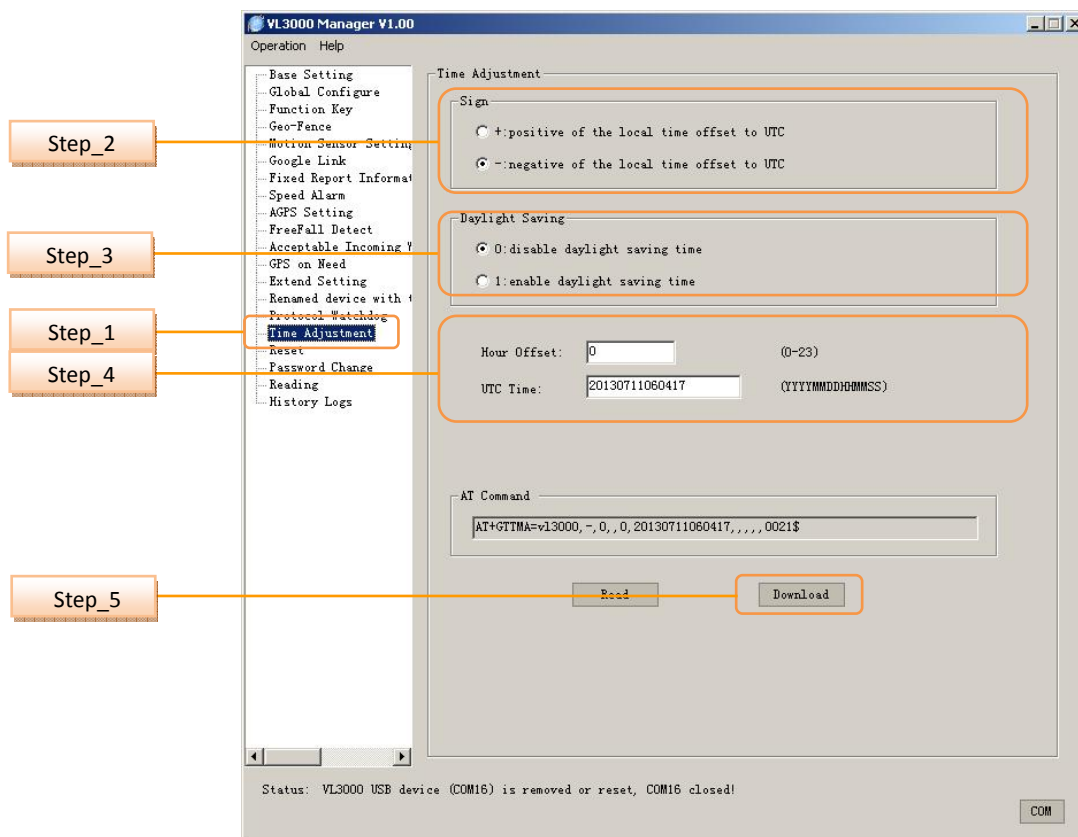
0: no report.

1: to report.

Whether to report the “+RESP:GTDOG” message before reboot. 0 means no report, 1 to report.

Step_5: Download the setting. The parameters of GTDOG are changed.

4.16 Set the Parameters of Time Adjustment



Step_1: Select “Time Adjustment” option.

Step_2: Select the Sign.

- +: positive of the local time offset to UTC.
- : positive of the local time offset to UTC.

Step_2: Select the Daylight Saving.

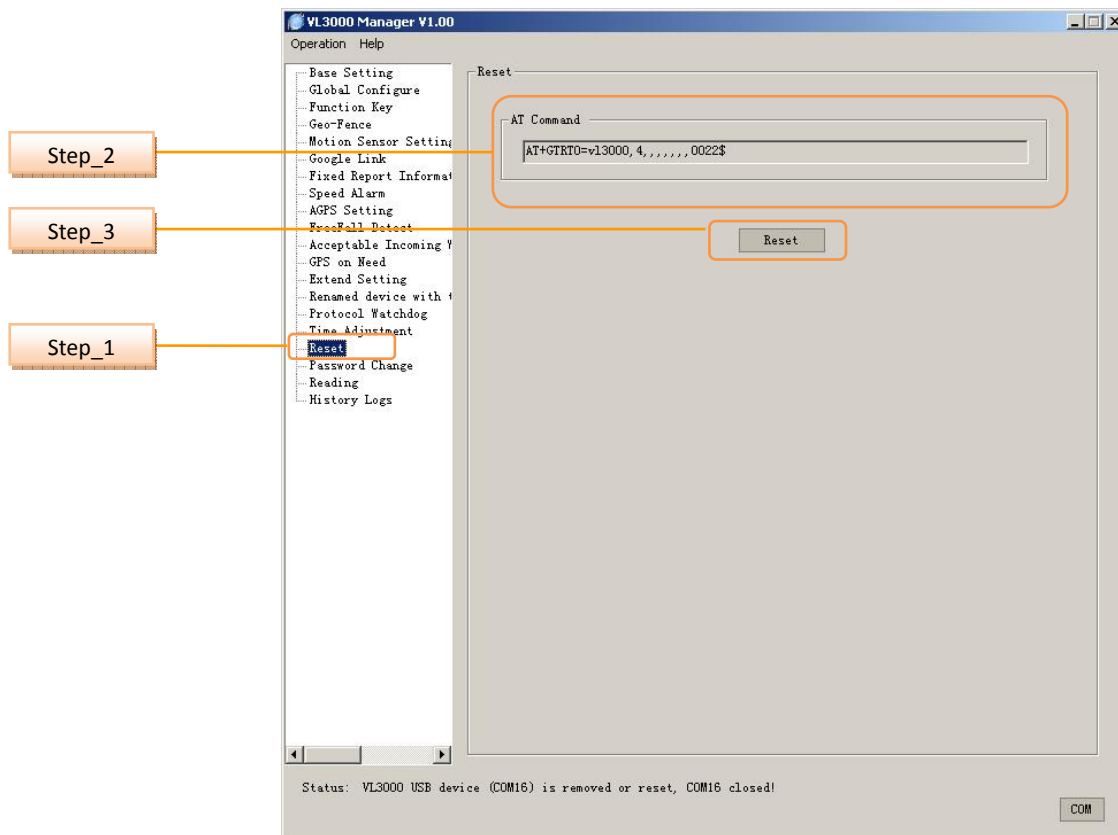
- 0: disable daylight saving time.
- 1: enable daylight saving time.

Step_4: Set “Hour Offset”: UTC offset in hour.

Set “UTC Time”: The configuration UTC time.

Step_5: Download the setting. The parameters of GTTMA are changed.

4.17 Set the Reset

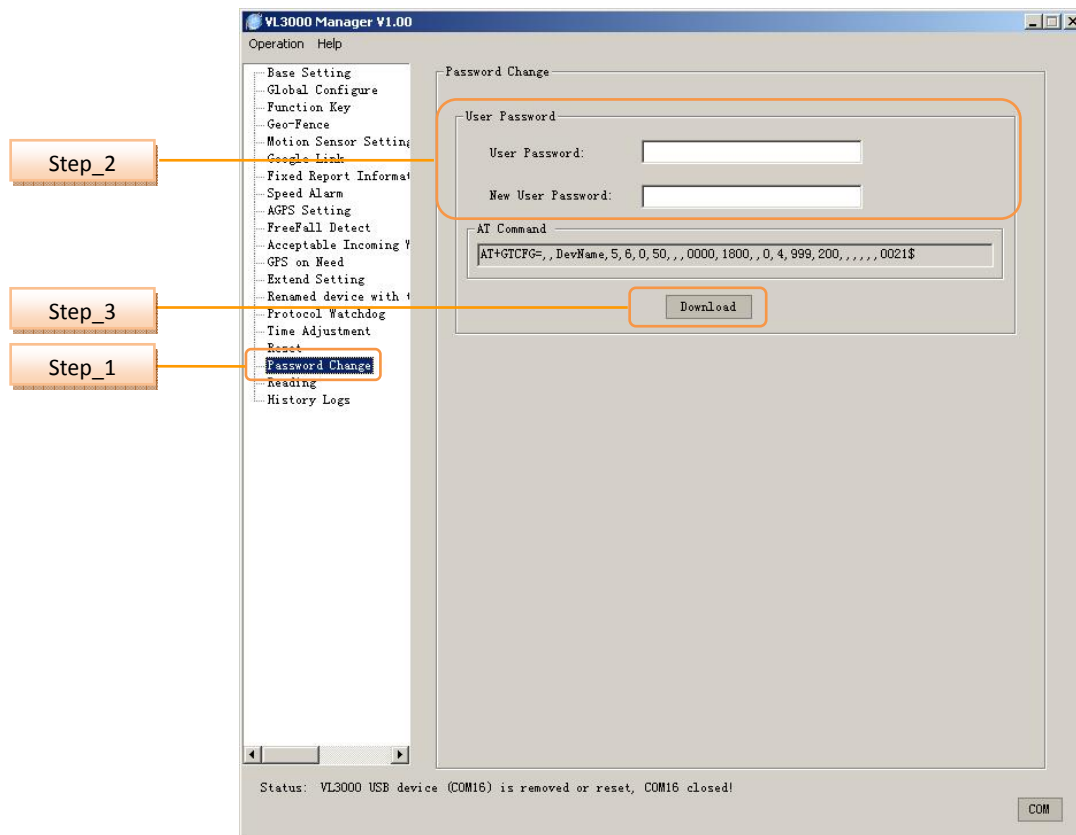


Step_1: Select “Reset” option.

Step_2: AT Command

Step_3: Download the setting. Reset all the protocol command parameter to factory setting, the terminal will restart itself after resetting

4.18 Set the Parameters of Password Change



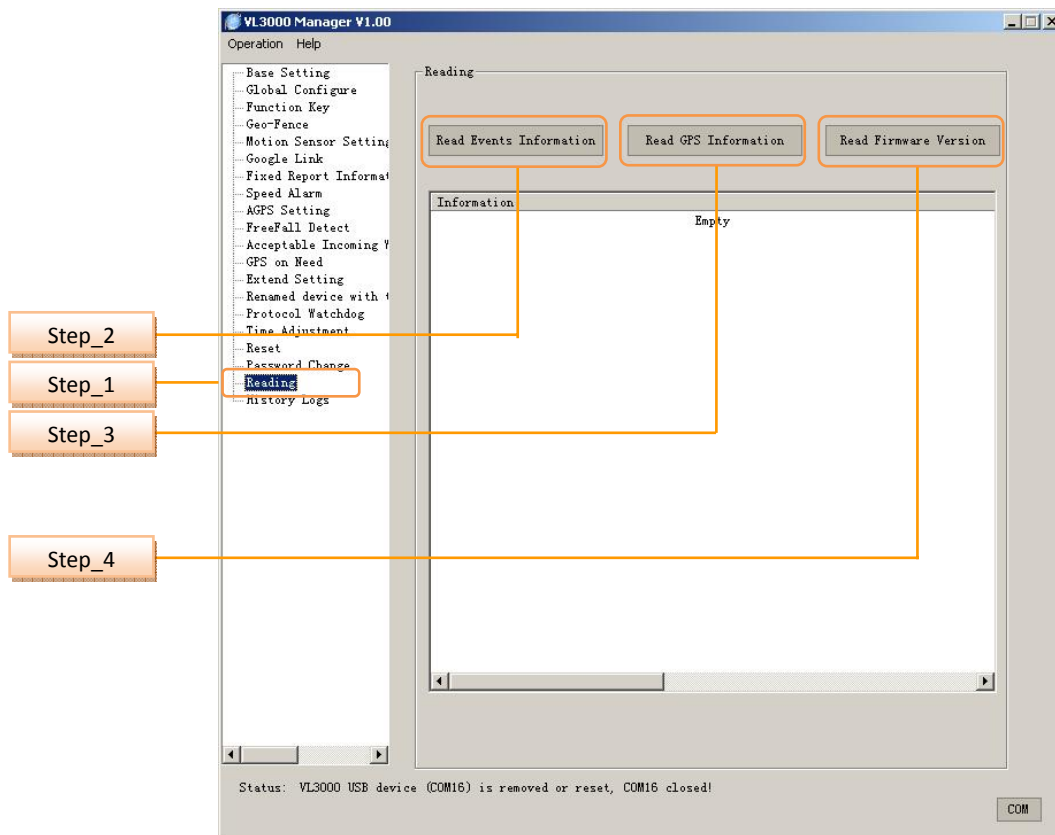
Step_1: Select “*Password Change*” option.

Step_2: Change the user password

- ✧ Enter current password in “*User Password*”.
- ✧ Enter new user password in “*New User Password*”.

Step_3: Download the change of user password. The parameters of GTCFG are changed.

4.19 Reading



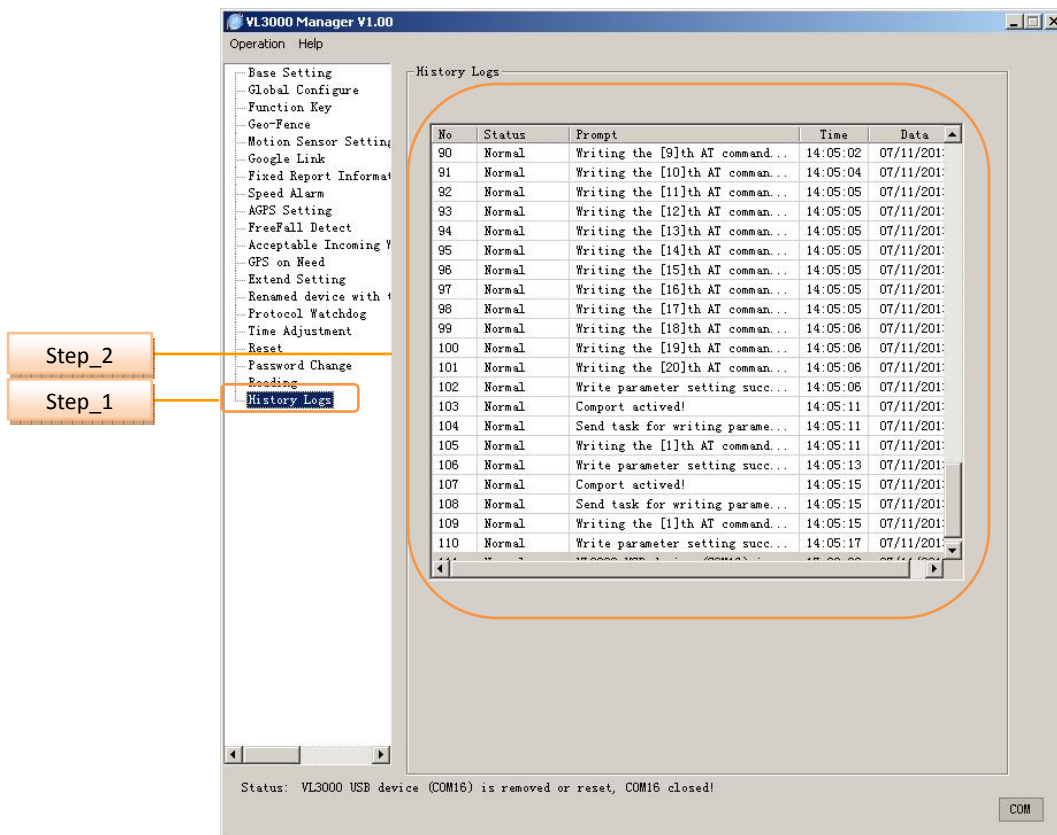
Step_1: Select “Reading” option.

Step_2: Click “Read Events Information”, the information will show below.

Step_3: Click “Read GPS Information”, the information will show below.

Step_4: Click “Read Firmware Version”, the information will show below.

4.20 History Logs

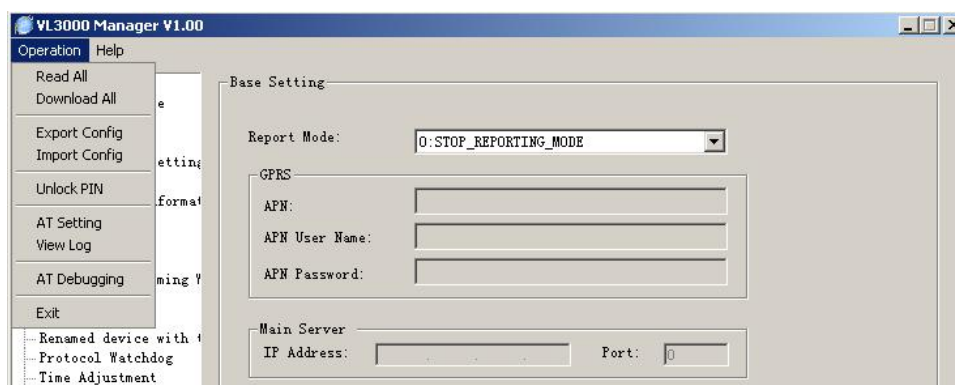


Step_1: Select “History Logs” option.

Step_2: The history logs will be shown.

5. Operation Menu

The operation menu supports “Read All”, “Download All”, “Export Config”, “Import Config”, “Unlock PIN”, “AT Setting”, “View Log”, “AT Debugging”, and “Exit” functions.



5.1 Read All

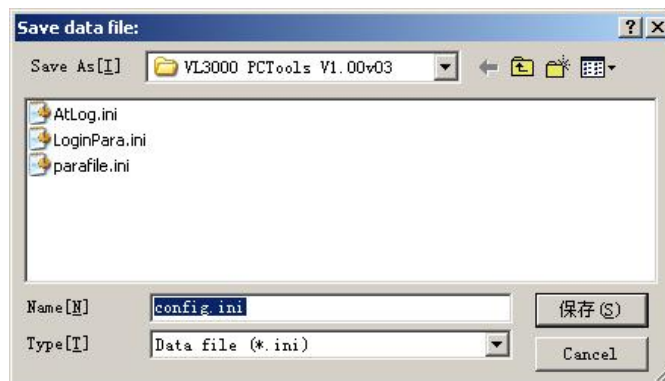
Read all parameters of VL3000 and list them in the corresponding fields.

5.2 Download All

Download all settings to VL3000.

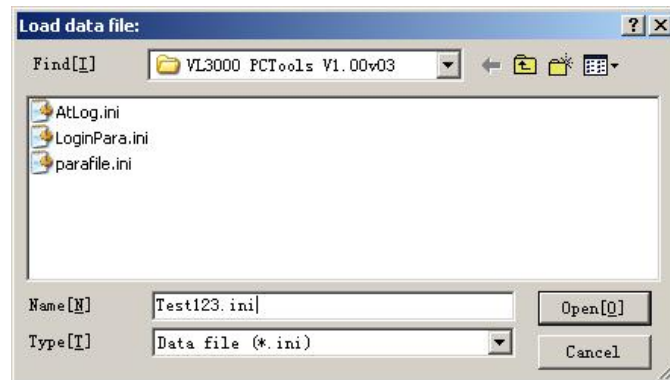
5.3 Export Config

“Export Config” exports the current configuration to a new “*.ini” file.



5.4 Import Config

“Import Config” imports a configuration file.



5.5 Unlock PIN

“Unlock PIN” unlocks the PIN of SIM card.



5.6 AT Setting

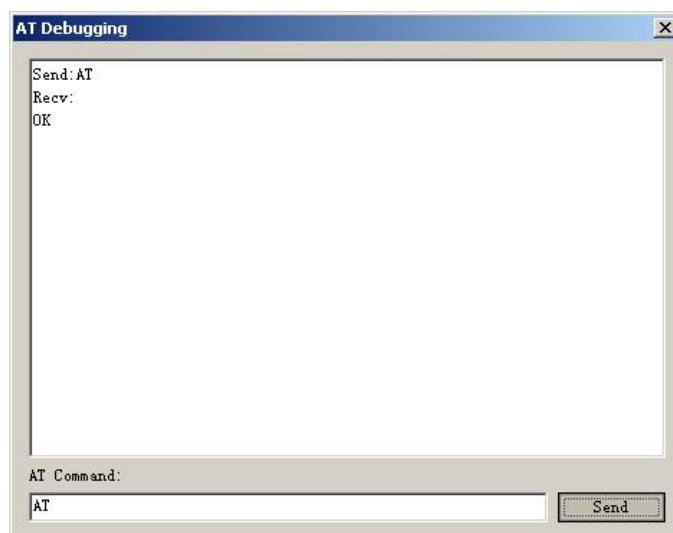


Set the password of AT command.

5.7 View Log

The document of AT log will pop up.

5.8 AT Debugging



User can test AT command through this window.

5.9 Exit

Exit the PC Tools.

6. Operation Attention

When accomplishing the operation with VL3000 by PC manager tools, exit the tools first then plug out the cable from VL3000. Otherwise the power saving algorithm cannot work.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance

could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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