

SANAV GPS Tracker Utility Setup Guide

Revision: 1.0.1

Revision Date: 2014/09/4

1. Notification	3
1.1 Introduction:	3
1.2 Disclaimer	3
1.3 Copyright	3
1.4 Document Amendments	4
2. Installation	5
2.1 Connect the device to your PC	5
2.2 Start up GPS Tracker Utility	6
3. Setting Function	8
3.1 User Settings:	8
3.1.1 Security Settings:	8
3.4 Report Settings	12
3.4.1 Auto Report	12
3.4.2 Over Speed Settings	12
3.4.3 Panic	12
3.4.4 Move	錯誤! 尚未定義書籤。
3.4.5 Geofence	13
3.4.6 Report Tail	13
3.5 Geofence Settings	15
3.6 Vibration Settings	錯誤! 尚未定義書籤。
3.7 Power Settings	錯誤! 尚未定義書籤。
4. Button Function	18
5. FAQ	19

1. Notification

1.1 Introduction:

This User Manual details how to make the connection from SANAV MU-201 Nano Tracker to your PC. It also details all the features and configuration of GPS Tracker Utility. If you have any problem with the content in this manual, please contact SANAV Customer Service by e-mail qc004@sanav.com

1.2 Disclaimer

This document, and all other related products, such as device, firmware, and software, is developed by SAN JOSE TECHNOLOGY INC. thoroughly. At the time of release, it is most compatible with specified firmware version. Due to the functionalities of the devices are being developed and improved from time to time, the change in the protocol, specification, and firmware functions are subjects to change without prior notice. SANAV is obligated to modify all the documentation without the limitation of time frame. A change notice shall be released to SANAV customers upon the completion of document modification.

SANAV products are not intended to be used as life support or rescue equipments. SANAV is not liable for any loss or injury caused by using or referencing to any products. Any possible means of using or integrating SANAV products shall be avoided.

1.3 Copyright

The all parts of intellectual rights applicable in the copyright laws in all the countries are held by San Jose Technology Inc., any or all parts of this document shall not be exposed to non-authorized party without any form of approval from San Jose Technology Inc. Any forms including but not limited to oral, copy, or internet sharing, of releasing or exposing information to an unauthorized party shall be prohibited. San Jose Technology Inc. reserves the rights of litigation in the violation of such copyright laws.

1.4 Document Amendments

Revision	Date	GPS Tracker Utility Version	Comments
1.0.1	2014/9/4	V1.01	Optimized for MU-201S1

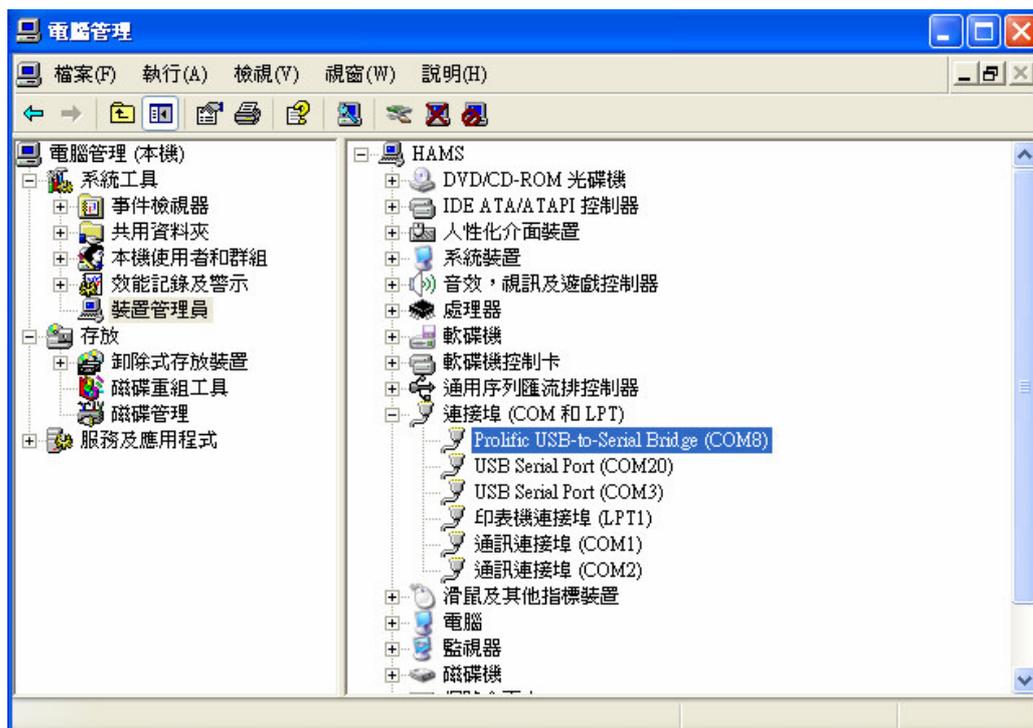
2. Installation

2.1 Connect the device to your PC

1. Install the USB Driver and the GPS tracker Utility in the CD.
2. Turn on MU-201S1 before connecting it to a PC.
3. Plug in the AP Cable (connect USB to PC and Mini USB to MU201S1).

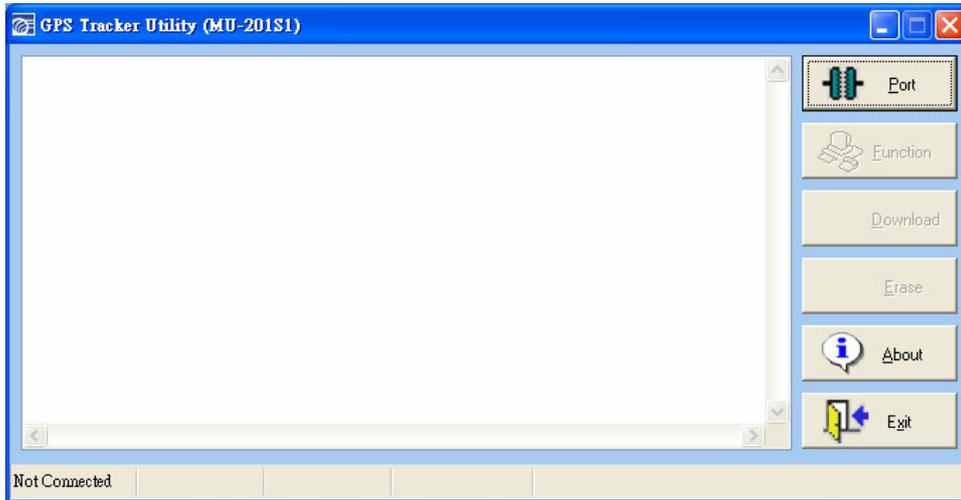


4. Check the COM Port from “Hardware Manager” in Windows OS

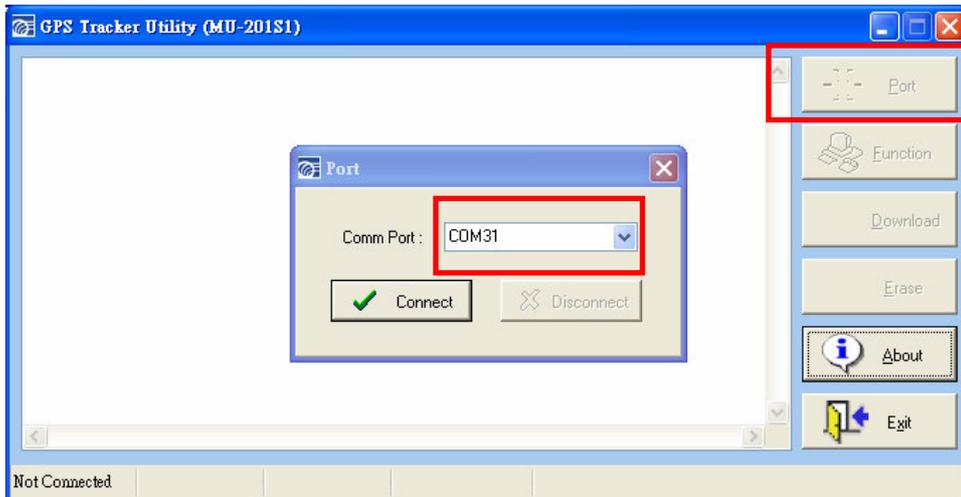


2.2 Start up GPS Tracker Utility

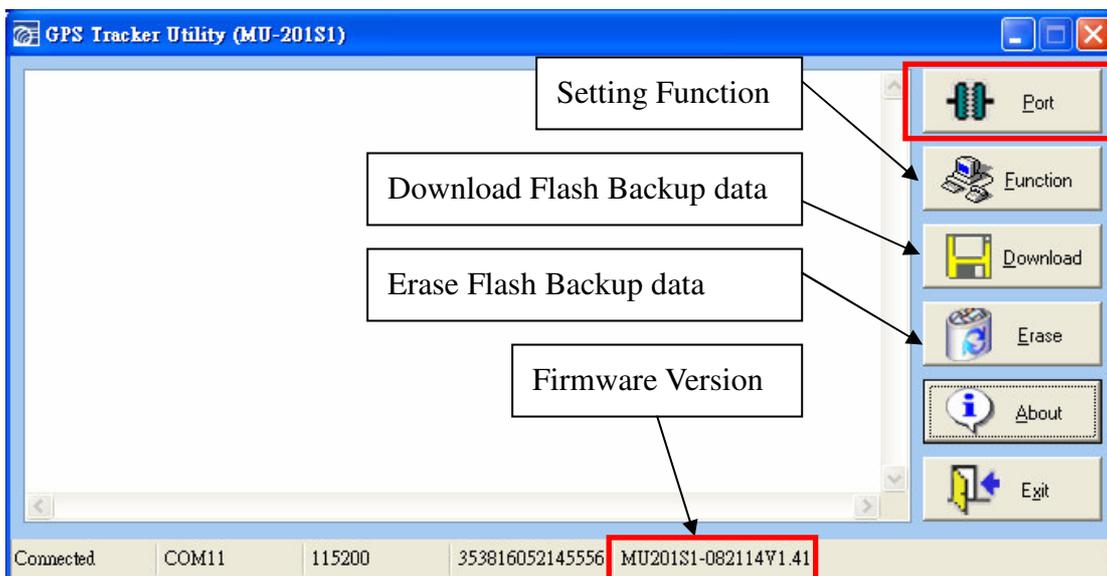
4. The main screen of GPS Tracker Utility (MU Series).



5. Execute GPS Tracker Utility. Click on “Port” and select the Comm Port then Connect



6. Features on utility



3. Setting Function

3.1 User Settings:

The screenshot shows the 'User Settings' dialog box within the 'MTU-201S1 Setting Function' application. The dialog is divided into two main sections: 'User Settings' and 'Security Settings'. The 'User Settings' section includes fields for Username (containing 'username'), Password (with 'New' and 'Check' options), SOS Phone (containing '0'), and Phone Book (with three entries, each having a number field and a dropdown menu set to '1'). The 'Security Settings' section includes a Security Phone Switch (set to '0') and a Security Phone Book (with ten entries, each having a number field set to '0'). A note at the bottom states: '#Please note that the numbers preset in 'SOS Phone' and 'Phone Book' are also considered as Security Phone numbers once this feature is enabled.' On the right side of the dialog, there are buttons for Save, Load, Default, Save File, Load File, and Close. A sidebar on the left lists other settings categories: User Settings, GPRS Settings, Mode Settings, Report Settings, Over Speed, Non-Movement, and Geofence Settings.

Username: At the maximum of 16 letters. (Letters have to be "a~z, A~Z, 0~9, @ - /")

Pin Code: 4 digits of number to enable SIM service

Password: 4 digits of number

Phone Book: 3 sets of phone number. Max: 19 digits

SOS Phone: 1 set of phone number, Max.19 digits

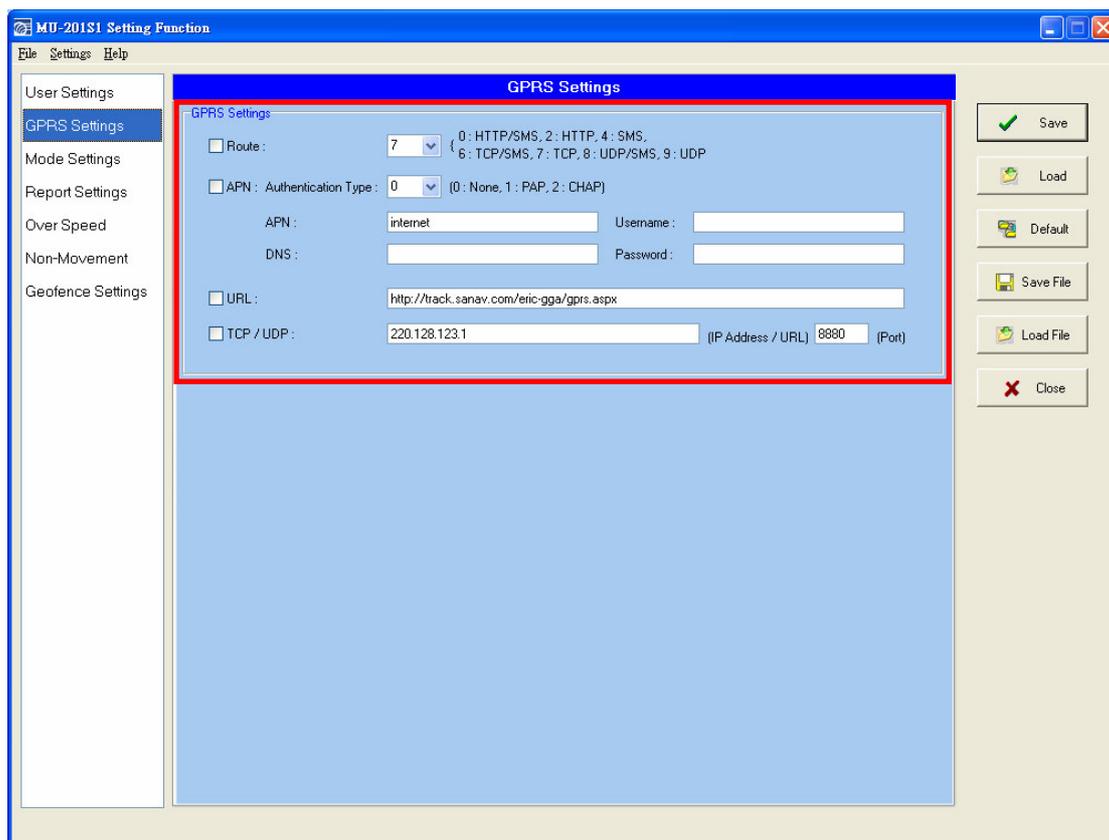
Note that both adding and not adding the "+" sign in front of the cellular phone number(s) are both acceptable, while the "+" sign should precede the national code.

3.1.1 Security Settings:

Security Phone Switch: Enable or Disable Security Phone function.

Security Phone Book: You can input 10 sets of Security Phone Numbers here.

3.2 GPRS Settings :



Route :

Router code	Representation
0	HTTP/SMS, send data to URL, if the URL is untouchable, then send it via SMS instead.
2	HTTP only, send data to URL, if the URL is untouchable, it won't send the data by SMS.
4	SMS only, send data by SMS only.
6	TCP/SMS, send data to an assigned IP address, if the IP is untouchable, then send it via SMS instead.
7	TCP Only, only send data to an assigned IP address.
8	UDP/SMS; send data to an assigned IP address, if the IP is untouchable, then send it via SMS instead.
9	UDP Only; only send data to an assigned IP address

APN: Define the APN for the GPRS communication

APN reference: http://forum.gpsgate.com/topic.asp?topic_id=6669

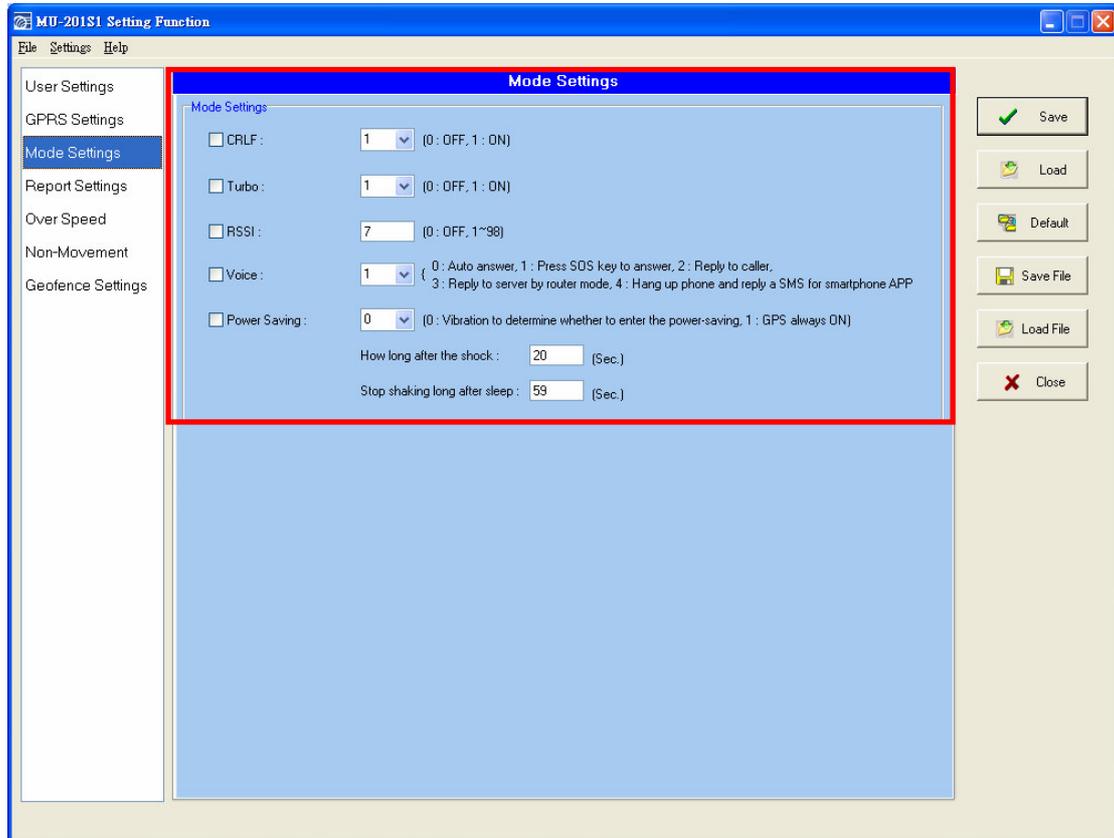
URL: For HTTP or HTTP/SMS protocol

TCP/UDP: The IP/Port for TCP, TCP/SMS, UDP or UDP/SMS protocol

(IP Address or Domain Name)

Setup Server: The IP/Port for COTA (commands by GPRS)

3.3 Mode Setting :



Field	Descriptions	Range
Crlf	When report router is set to TCP/UD, to add<CR><LF> for each report sentence..	0: turn off 1: turn on, when send data to TCP/UDP with CRLF
Turbo	Keep the connection alive to the server when report router is set to TCP/UDP.	0: turn off 1: turn on, after send don't close server connection
RSSI	When GSM signal is below the set value, report will be logged. After the signal is higher than the set value, report will be uploaded. This setting is to avoid data loss	0: turn off 1~99
Voice	The tracker will respond differently according to the settings when the call center calls the device	(0~1): Auto answer. 2: Hang up the call and then send a POLL message to call number 3: Hang up the call and

		then send a POLL message to assigned URL or IP(By route)
Power Saving	GPS power saving logic	<p>0: power saving on</p> <p>1:GPS always on</p> <p>1~65535:GPS waked up duration before reporting.</p> <p>1~65535: GPS is not sleeping during this time interval.</p>

3.4 Report Settings



3.4.1 Auto Report

Field	Descriptions	Range
Report Interval	Report time interval Note* the numbers will be rounded to the next Time Unit automatically; you can put the number in the preferred column of Time Units.	A constant interval of sending data
Total Report	Amount of report	0~9999, where 0 means turning off the Auto Report and 9999 means infinite

3.4.2 Panic

Field	Descriptions	Range
Report Interval	Tick the "Panic" and the tracker will send report when the "SOS" is pressed. The tracker will report periodically according to this setting.	1~65000 in seconds

Total Report	Amount of report	1~9999, 9999 means infinite
--------------	------------------	-----------------------------

3.4.3 Geofence

Field	Descriptions	Range
Report Interval	Tick the "Geofence" and the tracker will send the report(s) when the "Geofence" is activated and triggered. It will report periodically according to this setting.	1~65000 in seconds
Total Report	Amount of report	1~9999, 9999 means infinite

3.4.5 Low Battery

Field	Descriptions	Range
Low Battery 1	While the voltage is lower than low battery 1, MU-201S1 report the LP to its route.	3300~4200 V
Low Battery 2	While the voltage is lower than low battery 2, MU-201S1 switches off automatically.	2500~3500 V

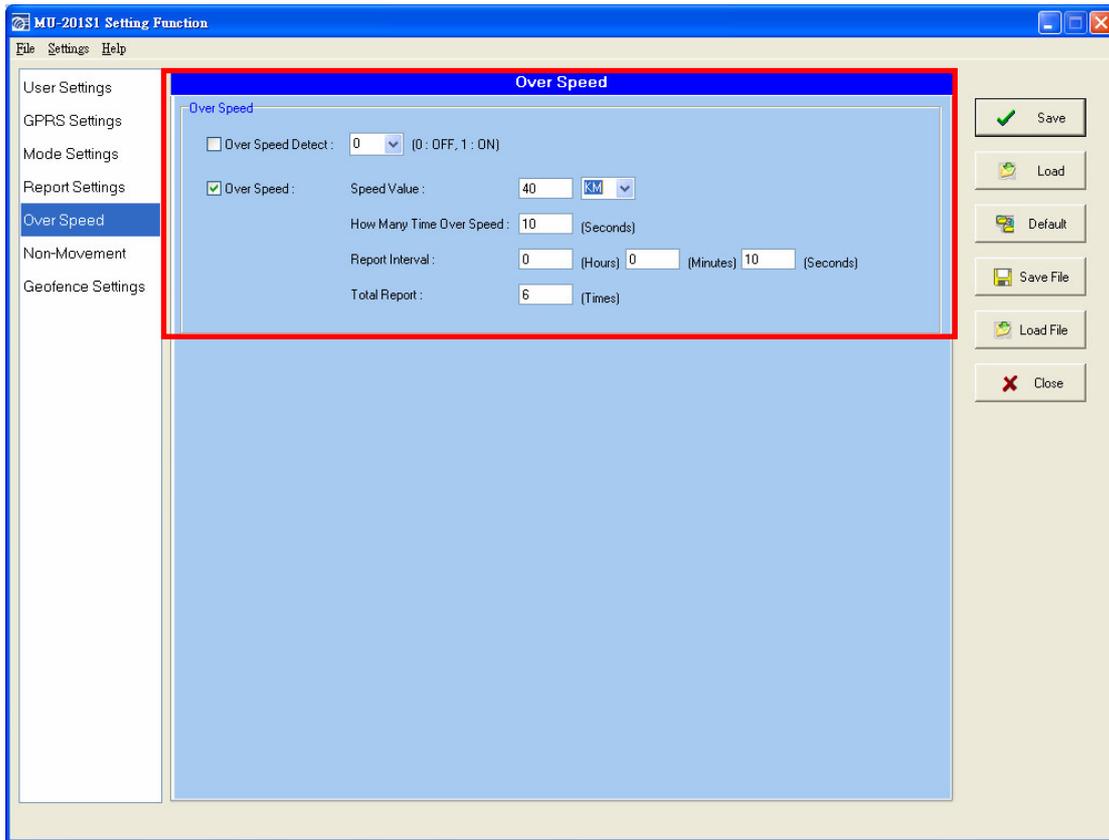
3.4.6 Report Tail Info Settings

Field	Descriptions	Range
Report Tail Info	By enabling "Report Tail Info", there will be additional information included in each report data. The additional data including Battery voltage, Battery Percentage, GSM Signa, GPS Number, HDOP Value, Charging Status, Input1, Input2, Input3, and MOVE Status information.	0: Off 1: On

3.4.7 GSM Cell Info Settings

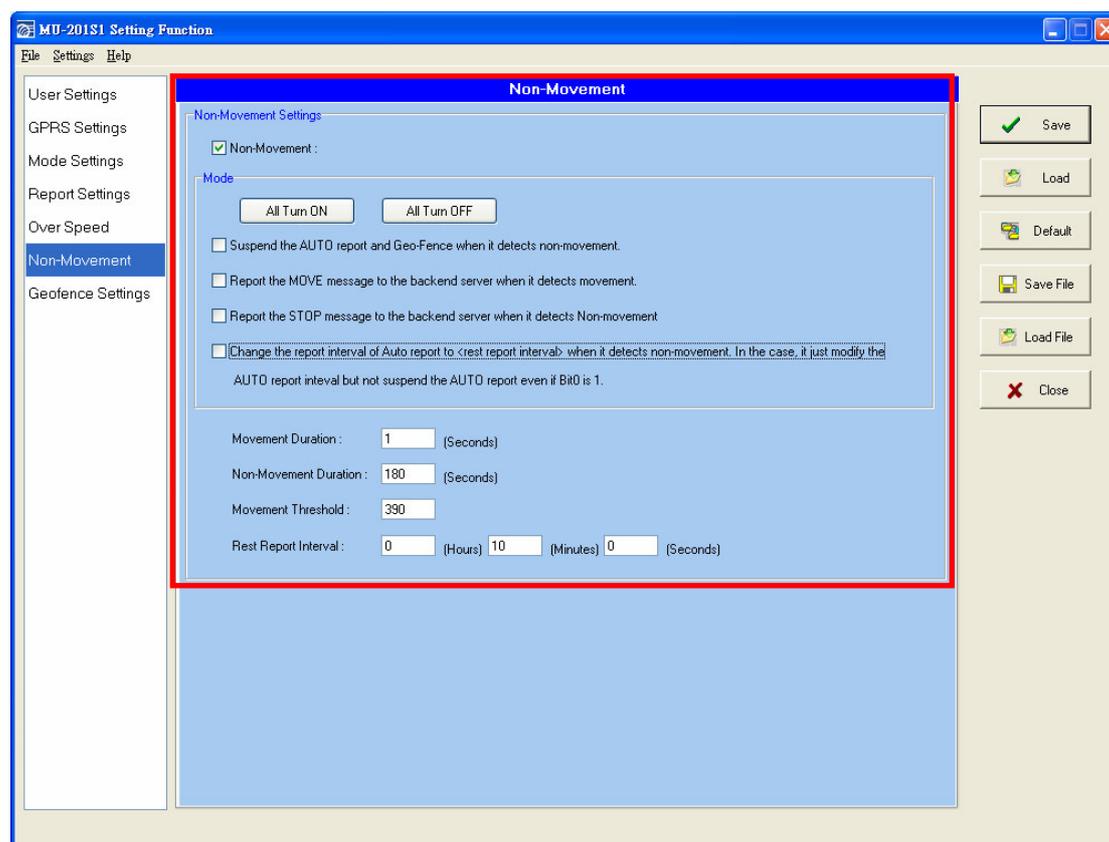
Field	Descriptions	Range
GSM Cell Info Settings	Switch on GSM Cell 1~7 set, MCC : MNC : LAC : CI : BSIC : arfcn : Rx	1~7 set

3.5 Over Speed Settings



Field	Descriptions	Range
Over Speed Decect	Over Speed Detection ON/OFF	0: Off 1:On
Speeding On Threshold	Speed Limit of Over Speed Event	1~999 km/h
How Many Time Over Speed	How Many Time Over	1~9999 seconds
Report Interval	The report interval when Over Speed.	1~9999 in seconds
Total Report	Amount of report	1~9999, 9999 means infinite

3.6 Non-Movement Settings



Suspend the **AUTO** report and **Geo-Fence** when it detects non-movement.

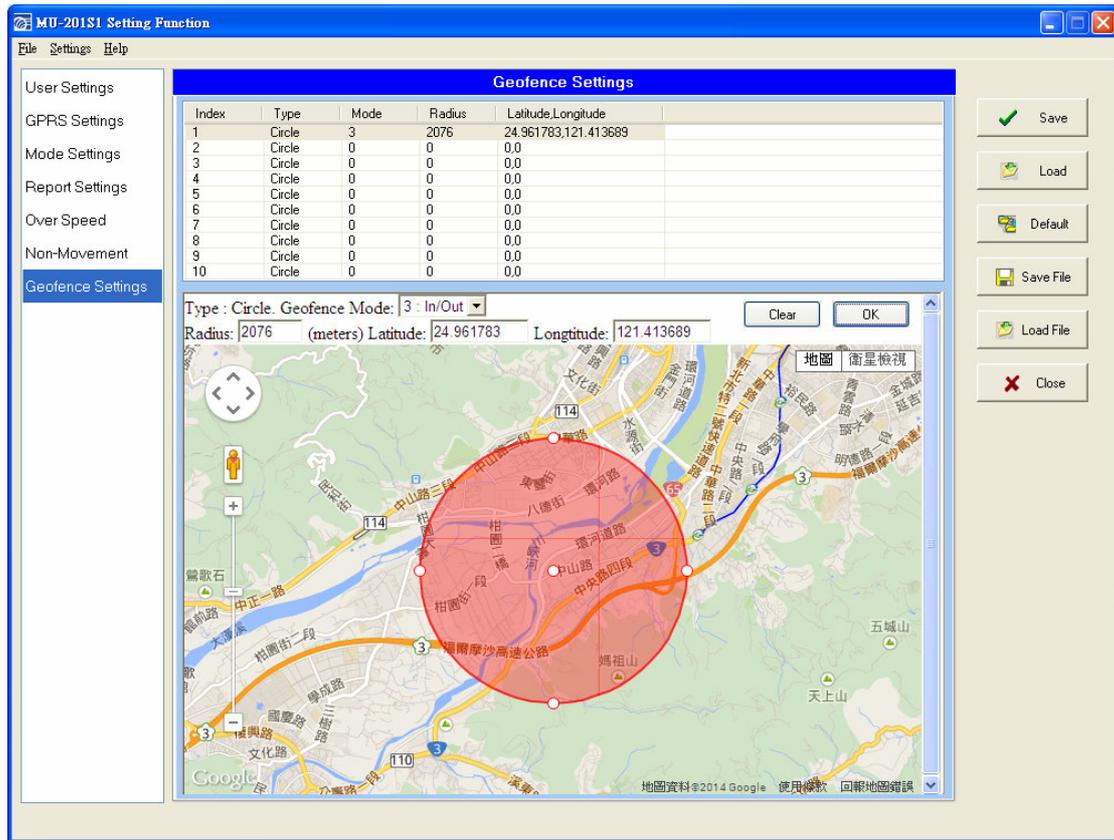
Report the **MOVE** message to the backend server when it detects movement.

Report the **STOP** message to the backend server when it detects Non-movement.

Change the report interval of Auto report to <rest report interval> when it detects non-movement. In the case, it just modify the **AUTO report interval** but not suspend the AUTO report even if Bit0 is 1.

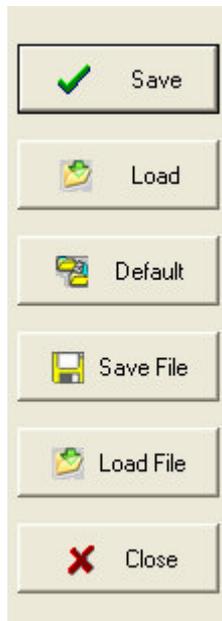
Field	Descriptions	Range
Movement duration	Define movement duration	1~9999 seconds
Non-movement duration	Define non-movement duration	1~9999 seconds
Movement threshold	Default setting	Not change
Rest report interval	Report heart bit	1~99999 in seconds

3.7 Geofence Settings



Field	Descriptions	Range
Lat.	Latitude	dd.dddddd
Long.	Longitude	ddd.dddddd
Range	Radius in meter	100~9999 meters
Geofence Mode	Geofence trigger setting	0: Off 1: Exclusion 2: Inclusion 3: Exclusion and Inclusion

4. Button Function



Save: To save the setting that has been done. **After saving the setting, reboot the MU-201S1 in order to restore the new setting.**

Load: To view the current settings.

Default: All parameters returned to default

Save File: Save the current setting as a file

Load File: Load previous file of setting.

Close: Exit the utility

5. FAQ

Not in command mode	Please turn ON MU-201S1 before connecting to PC.
	Please check if you have installed USB Driver.
	Please check the correct COM Port in Device Manager (Windows)
	Please make sure you used the correct USB Data Cable (Not the charging Cable.)