# TR-151A / TR-151E Vehicle/Asset Tracker User Manual

Version 2.2



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## **1. Introduction and Features**

### **1.1 Introduction**

TR-151 is a durable and water resistant GPS/GSM/GPRS tracker. You can install TR-151 on vehicles or assets for tracking. It can send out SMS with its location (longitude and latitude) to user's cell phone by GSM network or to personal computer by internet network. Then you can track the location of their vehicles or assets. TR-151 is designed to equip with high capacity of Li-ion battery for long operation time. There is one SOS button on the TR-151 for emergency help. It is very easy to install or hide TR-151 in the car to perform tracking. TR-151 is ideal application for vehicle tracking and equipment/assets monitoring.

### **1.2 Features**

- Highly sensitive GPS chipset
- Combination of GPS ,GSM/GPRS wireless network
- Durable and water resistant GPS tracker
- Easy to install or hide in the car to perform tracking. No external wires needed.
- Ideal application for vehicle tracking and equipment/assets monitoring
- Optional external antenna for GPS reception
- Rechargeable 2100mA high capacity Li-ion battery for long operation time
- External DC power supply
- Configuration can be done via SMS commands or by application software via USB interface.
- SOS (emergency) button.
- Voice monitor function to monitor the sound/conversation live.
- Geo-fence function
- Data buffer storage function

**NOTE: Voice Monitoring** function allows user to send a SMS or network command with voice monitoring command by to TR-151. TR-151 will call the assigned phone number. And then user can listen to the sound or voice around TR-151. While you listen to the sounds or voice around TR-151, people who around TR-151 won't know they are under voice monitoring.

**NOTE**: **Geo-fence** feature allows user to set up to 10 permissible or restricted areas whose shape is either circular or rectangular for tracking the vehicles or monitoring the equipment/assets. You can choose to receive alarm message if TR-151 enters the restricted areas or to receive alarm message if TR-151 gets out the permissible areas.

**NOTE**: **Data Buffer Storage** function will save up to 200 tracking points in the TR-151 when TR-151 is not making connection to server. And then TR-151 will send the data to server when it connects to server.

## 1.3 Hardware

GSM module:	TR-151A: Siemens GSM 850/1800/1900 TR-151E: Siemens GSM 900/1800/1900
Operating temperature:	-20° to 55° C
Antenna Type:	GPS patch antenna
Dimension:	86.7*48.9*32.5 mm
Battery:	2100mA rechargeable Li-ion battery
LED indicator:	For Charging, GPS, GSM and Status.
Interface:	Mini USB port for connecting to PC
Casing:	Water resistant (IPX4)
GPS external antenna port:	MMCX port

## 2. Start-up

## 2.1 Accessories



## 2.2 Install SIM card and Battery



• Use a coin or screwdriver to loosen the screw on back cover.



• Lift up the back cover and remove it as the direction shown.



- Push forward the cover of SIM card slot to the position marked with "OPEN". Then lift up the cover.
- Insert the SIM card with its metal contacts facing down and the cut corner at the top left.



Plug the battery connector into socket. Be aware that the red wire must be plugged on the top side.



• Please put the connector wire under the battery, and then put the battery into battery compartment.

**NOTE:** After installing the battery, the status LED will emit red light. After the LED go out, please wait for 5 seconds before turning on the power.

**NOTE**: Please take out the battery if you do not use TR-151 for a long time.

## 2.3 Charging the battery



Before using TR-151 for the first time, please fully charge it by connecting to AC power adapter under the power-off condition. (The attached battery is specially designed for TR-151. Please do not use other type of battery; otherwise it will damage the device. If you need to change the battery of TR-151, please contact your local dealer.) You can also charge the TR-151 by connect it to PC or Notebook via USB cable. (The power of PC or of notebook should be turned on.)

## 2.4 TR-151 with magnetic holder



• Insert the TR-151 with the Power button side facing out.



• Push TR-151 into the holder until it clicks in position.



 There are 4 circular magnets on back of the magnetic holder for attaching TR-151 onto the metal material of vehicle or machine.



• To remove TR-151, slightly push outward the two sides of holder, and slide out the TR-151.

## 2.5 Turn on/off the device

Turn on: After installing the battery, the status LED will emit red light. After the LED go out, please wait for 5 seconds before turning on the power. Press the power button for 3~4 seconds. When the device is turned on, GPS will do cold start to get fixed its position for the first time with the green GPS LED on. If location is fixed, the LED will blink. It is suggested that you stay at outdoor places or near the window where TR-151 can receive the better GPS signal when you turn on the device.

**NOTICE**: If it does not successfully get the location fixed after turning the power on, TR-151 may be located in the weak signal area or on the move.

 Turn off: Press the Power button for 3~4 seconds. When the power is turned off, LED will go out.



## 2.6 Button Description

Power button	<ol> <li>Power On: Press and hold the power button for 3-4 seconds. The status LED will flash 2 times</li> </ol>
	<ol><li>Power Off: Press and hold the power button for 3-4 seconds. The status LED will flash 1 time.</li></ol>
SOS button	Press the SOS Button, the status LED will flash 3 times to indicate the
	button is activated. TR-151 will immediately send out emergency
	messages along with its GPS report to 3 preset phone numbers.
Indicator	1 2 3 4 N 9 1 0 1. GSM LED:
	<ul> <li>Voice monitoring: LED keeps on.</li> <li>When no SIM card is inserted, network searches in progress, ongoing user authentication, or network login in progress: LED blinks quickly (about once per second).</li> <li>In standby mode: LED blinks slowly (once for 3 seconds)</li> <li>2. GPS LED: The LED keeps on when it is fixing the location. The LED</li> </ul>
	blinks when TR-151's location has been fixed. When GPS function
	is disabled, GPS LED will be off.
	<ol> <li>Status LED:         <ul> <li>When battery low: LED keeps on.</li> <li>When enter setup mode: LED keeps on.</li> <li>Press power button to turn on: LED flashes quickly 2 times.</li> <li>Press power button to turn off: LED flashes quickly 1 time.</li> <li>When SOS button is pressed: LED flashes slowly 3 times.</li> <li>When error occurs: LED flashes quickly 5 times.</li> <li>Sleeping mode: LED will flash slowly 60 times and then it enters sleeping mode.</li> </ul> </li> <li>Power LED:         <ul> <li>The LED emits orange light when charger is plugged for charging the bettern.</li> </ul> </li> </ol>
	<ul> <li>The LED goes off after the battery has been fully charged.</li> </ul>
USB connector	There are two functions of the USB connector:
	<ol> <li>Connect TR-151 to PC by a Mini USB cable and setup all its features and functions from application software through PC.</li> </ol>
	2. Charge the battery by connecting a USB cable.
Microphone	For voice monitoring use.
External antenna connector	For you to connect a MMCX external GPS antenna.

## 2.7 DIP switch



	On	Off
Switch 1	Enable TR-151 to automatically power	You have to press the power button to
	on when it is connected to external	power on TR-151 whether external
	power.	power is connected or not.
Switch 2	2 All LED works as user mode. Make all LED except status LED go o	
		for secret tracking. Status LED works
		as user mode.
Switch 3	Setting Mode (Status LED keeps	User Mode
	emitting red light)	
Switch 4	Sleeping Mode	User Mode

Note: You can set the switch by a little tweezers or pen point or toothpick.

## 3. TR-151 Management Setting

### 3.1 Install the USB driver

#### AutoRun



- 1.) Insert the Driver CD into your CD-ROM driver.
- 2.) AutoRun installation window will appear.
- 3.) Click "Install USB Driver" button to install the USB driver.
- 4.) You will see two folders. If your Windows is Vista version, please double click to open "PL2303\_USB\_Driver\_for\_Windows\_Vista" folder and double click on "PL-2303 Vista Driver Installer.exe" to begin installation. Follow the instruction to complete the installation process.
- 5.) If your Windows is XP or 2000 version, please double click to open "PL2303\_USB\_Driver\_for\_Windows\_2000\_XP" folder and double click on "PL-2303 Driver Installer.exe" to begin installation. Follow the instruction to complete the installation process.

# 3.2 Install, Update, Uninstall the TR Management Center program

#### 3.2.1 Install TR Management Center

Step 1: Click "English PC Software" button to install the TR Management Center program.

InstallShield Wizard	
	Preparing to Install
	TR Management Center 2 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
1	Extracting: TR Management Center 2.msi
	Cancel

#### Step 2: Click "Next"





🔡 TR Management Center 2 - InstallShield Wizard	×
Ready to Install the Program	
The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, dick Back. Click Cancel to exit the wizard.	
T	
< Back Install Cancel	

#### Step 4: Wait for the program to install

Installing	TR Management Center 2	A
The prog	gram features you selected are being installed. Please wait while the InstallShield Wizard installs TR I	Management Center 2.
17	This may take several minutes.	-
	Status:	
	Writing system registry values	
- Jel-14		
stallShield -		

Step 5: Click "Finish" when installation is finished

J煛 TR Management Center 2 -	InstallShield Wizard	×
	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed TR Management Center 2. Click Finish to exit the wizard.	
	< <u>B</u> ack <b><u>Finish</u> Can</b>	cel

#### 3.2.2 Update TR Management Center

If you download a new version of the TR Management Center software from the Globalsat website, you could install the downloaded software to upgrade the TR Management center without un-installing the previous version of TR Management center.

The update process is as follows:

	Step 1:	Preparing	to install	program
--	---------	-----------	------------	---------

InstallShield Wizard	
	Preparing to Install
	TR Management Center 2 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Extracting: TR Management Center 2.msi
	Cancel

#### Step 2: Click "Next"

岗 TR Management Center 2 -	InstallShield Wizard
	Management Center 2
	The InstallShield(R) Wizard will allow you to modify, repair, or remove TR Management Center 2. To continue, dick Next.
	< <u>B</u> ack <u>Next</u> Cancel

Step 3: Select "Modify" and click "Next"

Program Main	tenance
Modify, repair,	, or remove the program.
Modify	
1	Change which program features are installed. This option displays the Custom Selection dialog in which you can change the way features are installed.
🔘 Re <u>p</u> air	
F	Repair installation errors in the program. This option fixes missing or corrupt files, shortcuts, and registry entries.
© <u>R</u> emove	
8	Remove TR Management Center 2 from your computer.
allShield —	
	< Back Next > Cancel

#### Step 4: Click "Next"

Select the program features you want installed.	
Click on an icon in the list below to change how a featur	re is installed. Feature Description
	This feature requires 0KB on your hard drive.

#### Step 5: Click "Install"

B TR Management Center 2 - InstallShield Wizard	X
Ready to Modify the Program	
The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. exit the wizard.	. Click Cancel to
InstallShield	
< <u>B</u> ack <u>Install</u>	Cancel

#### Step 6: Wait for upgrading the TR Management Center 2

The prog	J TR Management Center 2 gram features you selected are being installed.
ß	Please wait while the InstallShield Wizard installs TR Management Center 2. This may take several minutes. Status:

Step 7: Click "Finish"

討 TR Management Center 2 -	InstallShield Wizard	X
	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed TR Management Center 2. Click Finish to exit the wizard.	
	< <u>B</u> ack <b>Finish</b> Car	ncel

#### 3.2.3 Uninstall TR Management Center

Step 1: Run "Start" -> "Globalsat" -> "TR Management Center" -> "Uninstall TR Management Center" Press "Yes"



Step 2: Uninstall in progress. Close window when finished



## 3.3 TR Management Center Screen Introduction



#### **TR Management Center Main Screen**

There are five parts of TR Management Center Screen as below.

- **Menu:** The basic menu options
- Main Tools: Shows the trackers' connection status, Network service status and the tracker's latest location
- **Query Tool:** Used for searching history data and finding coordinates
- Data Output Area: Shows the tracker login status, received network data and query results
- **Google Map:** Shows the Google Map

The detailed description of each part is as following.

#### 3.3.1 Tracker and Main Tool Bar

Main tool is for managing trackers and showing the server status



#### 3.3.2 Query Tool

Query tool is for looking up for the history data and coordinate.



#### 3.3.3 Data Output Area

Data output area is for displaying the Tracker data, log, and query result.

Name	Source_Tel	Local_Date	Local_Time	Gps_lat	Gps_lon	Gps_date	gps_time	gps_status	gps_alti	ç
ynonne	0934567890	2008/04/28	10:38:03	22.33774	114.20454	2008/04/28	18:38:03	GPS 3D Fix	00161	(
ynonne	0934567890	2008/04/28	10:37:58	22.33613	114.20472	2008/04/28	18:37:58	GPS 3D Fix	00161	(
ynonne	0934567890	2008/04/28	10:37:53	22.33522	114.20490	2008/04/28	18:37:53	GPS 3D FIX	00161	C
•										

The Output area is divided into GPRS Data, GPRS Log and Query Result

**Tracker Data**: Shows the data sent from connected trackers. Only the last 100 entries from each tracker are shown.

**Log**: Shows the record of all tracker connections and disconnections including the raw transmitted data.

Query Result: Shows all matching results from the trackers' history data.

## 3.4 Skype Setup

In stead of sending SMS to trackers by mobile phones, TR Management Center sends SMS to trackers by Skype. You can not only send SMS to trackers for asking report by Skype, but send SMS to set the parameters of TR-151's function.

In order to send SMS by Skype, please complete the following steps to activate the SMS function of Skype.

#### Step 1: Install Skype Software

You can download Skype from <u>www.skype.com</u> or the website of the local Skype distributor. Please refer to the instruction of Skype to install the software.

**Note:** The pictures and instructions provided in this manual are based on Skype version 3.6.1.xxx. If they do not match the version of Skype you are currently using, please download and upgrade to the latest version from the Skype website.

Step 2: Please create a user account.

Skype™	- Create Account		
S	Create a new Skype	e Account	
	Full Name		
	споозе экуре наше	Between 6 and 150 characters	
	* Password	Minimum 4 characters	
	* Repeat Password		
	* Yes, I have read an Skype Terms of Serv	d I accept the Skype End User License Agreem vice and the Skype Privacy Statement	ent the
	<ul> <li>Fields marked with an asternative</li> </ul>	risk are required	
		Next »	Cancel

Once you have created an account, you can login and use Skype's basic functions.

#### Step 3: Buy Skype credit



#### Step 4: Test the Skype SMS function

After completing the above process, please check if Skype's SMS functions can work by sending a test message to mobile phone. Follow the SMS messaging procedure below to send a SMS message and check that your Skype is working normally.

Sending a test SMS

From the Skype menu, select "Tools" -> "Send SMS Message" then follow the steps shown below



Choose Send SMS Message from the menu

Skype™	- Add to SMS	
0	Add to SMS	
	Select the users that you would like to receive this SMS and press "Add". If the user contacts, simply type their mobile number in the field below.	is not in your
	Mobile Enabled and SkypeOut Contacts: SMS recipients:	
	Add »	
	or add a phone number	
	Add » «Remove	
	OK	Cancel

At the Send SMS interface, add the recipient's mobile phone number

④ +886987654321 Skype™ SMS	
SMS is outgoing only! Messages will be shown as sent from +886988383700.	+886987654321
Note that certain countries and mobile providers may not allow sending this custom sender ID. Learn more	
	+886987654321
	Taiwan
	Add recipients to this SMS
Emoticons SMS #1: 160 characters left	<b>≷</b> +886988383700
Skype Credit balance: TWD 360.94	Change sender number

Write the content of SMS and click Send SMS button

Step 5: When you launch the TR Management Center program, the following security verification pop-up window will appear in the lower right corner of the screen asking you to allow the TR Management Center to use Skype functions.



Click the blue text to request Skype access.



Select "Allow this program to use Skype"

If you accidentally select "Do not allow this program to use Skype", please change this from within the Skype program at "Options -> "Advanced"

#### Note:

The exact procedure may vary from the version of Skype. Please refer to the Skype manual for more information.





If the TR Management Center is not allowed to use Skype, please click on the "**Change**" button and select "**Allow this program to use Skype**".

## 3.5 Firewall Setting

The TR Management Center sends data via network, so the firewall must be configured to allow external access. When you launch the network service, a Windows Security Alert window will appear. Click on the "Unblock" button to let the TR Management Center to use the network.

$\checkmark$					
Windov unblock the risk	vs Firewall has blocked th this program, it will be u s of unblocking a program	nis program from accepting incoming network connections. If you nblocked on all private networks that you connect to. What are name			
TE	Name:	TR Management Center Application			
<b>R</b>	Publisher:	Giscape Corp.,LTD			
	Path:	C:\program files\giscape\tr management center\trmanagem			
	Network location:	Private network			
		What are network locations?			
## 3.6 TR Management Center System Requirement

The computer system requirements of the TR Management Center program:

- The computer must be equipped with at least an Intel Pentium 4 or equivalent AMD CPU, 256MB of RAM and a network card.
- Supports the following operating systems: Windows XP, Windows 2000, Windows 2003 or Windows Vista. (It does not support 64 bits OS). If you will run TR Management Center on Windows 2000, please download the MDAC component on this <u>link</u> before installing TR Management Center.
- 3. The graphics card must support at least 256 colors and a resolution of 800x600 or higher.
- 4. Skype must be version 3.6 or higher. The latest version can be downloaded from <a href="http://www.Skype.com">www.Skype.com</a>.
- 5. A fixed IP address is required. If a dial-up network connection is used, the program must be provided with this computer's external IP address. TR-151 trackers must be configured with this IP.

## 3.7 Copyrights and Example Information

The copyright on all software and hardware mentioned in this manual belong to their respective owners.

- 1. The copyright of Windows XP, Windows 2000, Windows 2003 and Windows Vista belong to the Microsoft Corporation.
- 2. The copyright of the Skype program belongs to Skype Technologies S.A.
- 3. The copyright of Google Map belongs to **Google Inc.**
- 4. The copyright of Intel Pentium belongs to the Intel Corporation.
- 5. The copyright of AMD belongs to Advanced Micro Devices, Inc.

All text and telephone numbers mentioned in this manual are used as an example only. We apologize in advance for any coincidences.

Any copyrights not mentioned in this manual belong to their respective owners.

# 4.1 TR-151 Management Operation 4.1 TR Management Center Basic Setup

Before operating the TR Management Center, please set the operation parameters of the TR Management Center in the **Basic Setup**. It will make the afterward operation work properly.



**Basic Setup** 

Basic Setup	
TCP Port :	5000
📃 Auto start Network Service	
Time Zone :	+8
SMS return phone number :	+886 0933743956
SMS report format :	0 - TEXT format
🔲 Auto Start Skype	
OK	Cancel

**Basic Setup Interface** 

Item	Function	Description
TCP Port	Set the communication	The default is 5000. You can set
	port for connecting	form1024~5000.
	network	
Auto start	Choose to automatically	
Network service	start network service or not	
Time Zone	Set the time zone	
SMS Return	Set the phone number for	
phone number	receiving the SMS report	
SMS report	Set the SMS format	
format		
Auto Start Skype	Choose to automatically	
	start Skype	

Note: Please do the Basic Setup for the first time of using TR Management Center.

## 4.2 Tracker Management

TR Management Center can track and manage up to 5 trackers. You have to set the parameters of TR-151 while adding a set of TR-151 in the TR Management Center. If you have already set 5 trackers in the TR Management Center and want to set one more tracker, please delete one of the existing trackers in the TR management center.

The tracker's information and parameters must be properly configured before using other functions of TR Management Center. Then your tracker can correctly send report back to the TR Management Center and that the program can correctly display the tracker's current location on the map.

## 4.2.1 Adding and setting a TR-151 tracker

You can add a new tracker by making TR-151 Setup, please follow the steps below.

Step 1: Connect the TR-151 to the computer's USB port by the USB cable.

Step 2: Open the battery cover and adjust DIP Switch 3 to "On".

Step 3: Turn on the TR-151. When the status LED turns red, the tracker is under setup mode. (Please hold down the power button for 2 seconds or more until the red light comes on.) (Note: After turning on the power, please wait around 10 seconds before continuing with the TR-151 setup process)

Step 4: From the "Management" menu, select "TR-151 Setup" and enter the setup interface.

	Mar	nagement	Skype	GPRS Servi		
	Tracker Management					
	_	TR-151 Set	up			
		TR-102 Set	up			
đ		Update TR	-151 Firm	nware		

Step 5: After selecting "TR-151 Setup", please select the COM Port. If you are not sure which COM port you are using, click "**Scan COM Port**". Then please click "**Setup**" button to open the Setup window.

TR-1	51 setup
<b>⊢</b> St	tep 1
	COM Port : 3
	Scan COM Port
St	tep 2
	Setup Cancel

TR-151 Setup Interface

Click on Scan COM Port to find the port the TR-151 is connected to

Scan COM Port	×
COM Port : 3 Not Find COM Port : 1 Not Find COM Port : 2 Find	
Cancel OK	]

Note: If the scan fails to locate TR-151, please try again with the other USB port.

**Note**: If your SIM card asks for SIM PIN entry, a window will appear prompting you for the PIN password. (Please make sure you enter the correct code as the SIM card will be locked after three failed attempts. If you do not know the PIN code or the SIM card is locked, please contact your GSM network service provider for assistance.)

Enter SIM PIN code	X
Please enter the pas	sword of SIM PIN code
SIM PIN code : 12	34
ОК	Cancel

SIM PIN Code Interface

#### 4.2.1.1 TR-151 Basic setup

TR-151 Setup				×
d Basic setup	Default report mode	Sleep mode setup	GPRS setup	Þ
Tracker information Firmware version : IMEI code: Tracker name SMS default return SMS default return Maximum GPS fixin	TR-151 v.stand_2.2_M TR-151 v.stand_2.2_M 20222008377176 Set onne Ph phone number um phone number :	by Nat Lin 080509(F-0T t time zone : ON one number : +886	R-151MSD-0808	20:
SOS number SOS number 1 : SOS number 3 : * Extra Setting Echo reply :	2 2	COS number 2 :		
		OK	Can	cel

TR-151 Basic setup

## Tracker Information: TR-151's Basic Information:

Item	Description
Firmware Version	Version of TR-151 firmware.
IMEI Code	International Mobile Equipment Identity
Set Time Zone	On: SMS sent from TR-151 will be converted to local time. Off: SMS
	sent from TR-151 will include the Coordinated Universal Time (UTC).
Tracker name	Enter the name of the tracker.
Phone number	Enter the phone number for this TR-151 and select the country/area
	code.

## SMS default return phone number:

Item	Description
SMS default return	TR-151 will send location report or confirmed message back to the
phone number	return phone number that is in the last field of all SMS tracking commands. If user leaves " <b>Return Phone Number</b> " blank in the tracking commands, TR-151 will send SMS back to " <b>SMS Default Return Phone Number</b> ".

lf	"Return	Phone	Number"	and	"SMS	Default	Return	Phone
Νι	umber" a	re both b	olank, TR-1	51 wi	ll send	report ba	ack to cal	ler ID.

## Maximum GPS fixing time:

Item	Description
Maximum GPS fixing	The maximum time allowed for a GPS fix. If TR-151 cannot get fixed
time	of the location within the specified time, TR-151 will turn off GPS and
	send back its last known position. The unit is minute.

#### SOS number:

Item	Description
SOS number	After SOS button is pressed, TR-151 will send position report to 3
	phone numbers or TR Management Center. You can set the 3 phone
	numbers in the field of SOS number. If only one phone number is
	setup, TR-151 will only send one SMS. You can set the report
	method of position report in 4.2.1.2 Default report mode

## Extra Setting

Item	Description
Echo mode	<ul> <li>On: Enable TR-151 to send return SMS or command to the phone number or server to confirm it has received the command</li> <li>Off: Disable TR-151 to send return SMS or command to the phone number or server to confirm it has received the command</li> </ul>

## 4.2.1.2 Default report mode

TR-151 Setup				×	
Basic setup     Def	ault report mode	Sleep mode setup	GPRS setup	Þ	
Default report mode setting Default report mode :	p Report		<b>T</b>		
Report interval : 30	Report	Method SMS+GPRS			
Report format : 1 -NMEA	Forma - Numb	er of reports : 0	(0:Continue report)		
Return phone number for d	efault report mode	:			
/ Motion mode setting					
Static Interval time :	30 min	(30~1440)			
Moving Interval time	Moving Interval time 30 sec (10~86400)				
Return phone					
Sensitivity :	10	(1~255)		2	
SOS Alarm Report Method					
Report Method SMS+GP	RS -				
Default			OK Cano	el	

## Default report mode setting:

Item	Description			
Default report mode	TR-151 will automatically go into the "Default report mode" when it			
	is powered on.			
	There are 7 report modes:			
	SMS Immediate Report,			
	SMS Period Report,			
	Stop Report (Standby),			
	GPRS Immediate Report,			
	GPRS disconnect and period			
	Motion report			
	SMS/GPRS Immediate report			
	After selecting a report mode, the unnecessary parameters for that			
	mode will be disabled.			
Report interval	The interval of sending location report in "SMS Period Report" and			
	"GPRS Period Report" mode. The unit is second.			
Report format	Set the TR-151's report format as 0, "TEXT Format" or as 1, "NMEA			
	Format".			

	0 – TEXT Format
	TR-151
	2008/3/6 18:50:6
	N24.5981,E121.2924
	GPS fixed"
	1 – NMEA Format
	?0,352023006488395,0,3,130308,061740,E12129.3241,N2459.8051,134.0,0.04,0.00,4,4.
	45!
Number of reports	Set the number of reports to transmit in "Period Report" mode.
Report Method	The method of the position report be sent by SMS or GPRS or
	SMS+GPRS
Return phone number	The phone number for receiving the SMS of "Default report mode"
for default phone	
number	

Motion Mode Setting

Item	Description		
Static Interval time	The regular report interval under motion mode		
Moving Interval time	The report interval when TR-151 senses vibration under motion		
	mode		
Return phone number	The phone number for receiving report when the Report Method is		
	SMS or SMS/GPRS		
Sensitivity	The number of vibration which activates TR-151 to send motion		
	report. The value range is 1~255. The larger the number is, the less		
	sensitive the device is.		
SOS Alarm Report Metho	od		

SOS Alarin Report Method			
Item	Description		
Report Method	The method of the SOS alarm report be sent by SMS or GPRS or		
	SMS+GPRS		

## 4.2.1.3 Sleep mode setup

TR-151 Setup				
4 Basic setup D	efault report mode	Sleep mode setup	GPRS setup	Þ
Sleep mode setting —				
Regular report interval:	<u>30</u>	min (30~1440	0	
Alarm report interval :	30	sec (10~8640	0)	
Report numbers :	0	times (0 ~ 200	)	
Return phone number :				
Sensitivity :	10	(1~255)		
Default		0	K Cano	e1

Item	Description	Default	Remarks
Regular report	The interval of sending position report	30 minutes	Unit is minute
interval	under sleeping mode. During the		
	interval, TR-151 will temporarily exit from		
	sleeping mode		
Alarm report	The interval of sending position report	30 seconds	Can be set from
interval	when TR-151 senses vibration under		10~86,400
	sleeping mode		seconds
Report	Set how many position report will be sent	0	0 indicates report
numbers	when TR-151 senses vibration under		continuously
	sleeping mode		
Return phone	The phone number for receiving position		
number	report under sleeping mode		
Sensitivity	The number of vibration which activates	10	Can be set from
	TR-151 to send alarm report. The value		1~255
	range is 1~255. The larger the number		
	is, the less sensitive the device is.		

#### 4.2.1.4 TR-151 GPRS setting

TR-151 Setup					×
d Basic setup	Default report mode	Sleep mode	setup (	SPRS setup	Þ
Server IP address or D	omain name:				
220.128.207.76					
Port : 🕞	4000	APN :	internet		
User name :		DSN1:			
User password :		DNS2:			
Default			ОК	Cance	1

Item	Description	Remarks
Server IP address or	server host IP	The fixed IP or Domain Name for the
Domain name		computer running the TR
		Management Center
Port	The communication port for	Default is 5000
	connecting to GPRS network	Can be set from 1024~5000
APN	The name of your network	The APN depends on the SIM card
	service provider's access point	for the telecommunication service
		provider used by your TR-151 (The
		list below is for service providers in
		Taiwan. Please refer to the Appendix
		for your APN.)
user name	user name	Contact your GSM/GPRS network
user password	user password	service provider
DNS1		
DNS2		

#### APN Settings in Taiwan's provided

Service Provider	APN
Far East one	fetnet01
Trans Asia Telecommunications	hank
Chunghwa Telecom	emome or internet
MOBITAI Communications	gprs1
Taiwan Mobile	Internet
KG Telecom	internet

Once you have entered all of the settings, click on "OK" to set up the TR-151 or click on "Cancel" to cancel the setup.

Note 1: After setting up TR-151, if this tracker does not exist in the TR Management Center it will be added to the database. If it already exists then the database will be updated.

Note 2: Once setup is complete, turn off the TR-151, set the DIP Switch to OFF and restart before use.

Note 3: If your device has not been used for a long time or the data has been lost for some reason, click on the "Default" button to reset the device to its default settings.

## 4.2.2 Tracker Management

Tracker Management is used to manage registered or previously configured trackers. In Tracker Management, you can edit or delete trackers.

You can find Tracker Management from the Menu "Management" -> "Tracker Management".



The Tracker Management option under Management in Menu

Tracker Managemen	t	N	×
User	Country	Phone	IMEI
🙀 telenav test	+886	0933876543	352023006488395
L			
		Delete	ОК

Tracker Management interface

## 4.2.3 Deleting a TR-151 tracker

There are two ways for deleting TR-151 trackers in the TR Management Center

1. Select "Management"  $\rightarrow$  "Tracker Management" from menu bar.

Choose the TR-151 you want to delete, and then click on the "Delete" button.

Tracker Managemen	t		×
User	Country	Phone	IMEI
🗐 telenav test	+886	0933876543	352023006488395
L			
,	$\langle$	Delete	ОК

2. The other way of deleting TR-151 tracker is selecting a tracker from the Trackers List and right clicking the mouse button to bring the tracker menu. Now click on **Delete Tracker** to delete the selected tracker.



Method 2 for deleting a tracker



A confirmation window will appear when deleting a tracker

**Note**: Deleting a tracker does not actually delete its history data from the database. To delete all history data, please use the editing features in Microsoft Access.

## 4.2.4 Editing a TR-151 tracker

If you want to change the information of TR-151 tracker, you can edit the information by "Edit tracker"

There are two ways of bring up "Edit tracker"

1. Click "Management"  $\rightarrow$  "Tracker Management" from menu.

Tracker Management	i		×
User	Country	Phone	IMEI
💭 telenav test	+886	0933876543	352023006488395
		he -	
		. 0	
		Delete	ОК

Double click a tracker, and then the window of "Edit tracker" will be brought up.

The other way of bringing "Edit tracker" is selecting a tracker from the Trackers List and right clicking the mouse button to bring the tracker menu. Click on Edit Tracker



Edit Tracker window

After editing the information, click **OK** to save the setting.

Edit tracker	×
4 Basic Setup	Þ
Tracker name: ynonne	٦
Tracker phone number : +886 0933743956	
Tracker IMEI code : 357248014191443	
Tracker type : Globalsat TR-151	
Display icon :	
OK	1

#### 4.2.5 Selecting Country/ Area code

It requires adding country code/Area code prior to the phone number while sending SMS by Skype to TR151 or sending SMS to TR-151 by mobile phone when you and TR-151 are in the different country or area.

Please click the button beside the phone number in the window of "**Edit tracker**" The window for selecting country code/ area code will be brought up.

Edit tracker	×
Basic Setup	Þ
Tracker name: monne	
Tracker phone number : +886 0933743956	
Tracker IMEI code : 357248014191443	
Tracker type : Globalsat TR-151	
Display icon :	
OK Cancel	

Select Country/Area code	(	×
Country	Country/Area	^
ALBANIA ALGERIA AMERICANSAMOA ANDORRA ANGOLA ANGUILLA ANTARCTIC BASES ANTIGUA ARGENTINA	+355 +213 +684 +376 +244 +1264 +6721 +1268 +54	
ARUBA	+2978	~
<	>	
ОК	Cancel	]

You can press the first letter of the country name by the keyboard to go to the countries with the same first letter. After selecting the country code, please click OK.

## 4.3 Instruction of using TR Management Center

## 4.3.1 Instruction for Beginners

If it is the first time for you to use TR-151, please refer <u>4.2.1 Adding and setting TR-151 trackers</u> to set TR-151. It will ensure TR-151 can send the report to TR Management center via network and display the location on the map.

#### Precautions before use:

- The SIM card installed in TR-151 should support GPRS connection. This is usually what GSM/GPRS network operators refer to as a 2G or 3G SIM card. Please check if the SIM card supports GPRS connection with your GSM/ GPRS network service provider.
- Please make sure the computer where you install TR Management center has a fixed IP. If the PC uses a dial-up network, please check the float IP address should be the same IP with TR-151's setting. You can send a SMS to update TR-151's IP address.
- Please check that the firewall on your computer or router does not block the receiving TCP Port. If this port is not unblocked in the firewall, TR-151 will not be able to send its data to TR Management center through this port.
- 4. Please consult with your GSM/GPRS network service provider about the GPRS setting, GPRS will not connect properly if the settings are incorrect.
- 5. In order to send SMS by Skype, please install the Skype software, create a user account and buy Skype credits. The Skype SMS messaging function must be set up correctly as well. Skype only can send SMS. It is unable to receive SMS from TR-151

## 4.3.2 Asking TR-151 to make immediate report

You can send command via SMS or via network to make TR-151 make immediate report. You could send command via network only when TR-151 is under GPRS period and disconnect mode, motion mode, park mode, Geo-fence mode and the report method must be GPRS or GPRS + SMS.

Step1:

#### Send command via SMS:

Select the TR-151, right click the mouse to bring up the option menu, and select "**Send SMS Command**"



#### Send command via network:

Select a connected TR-151, right click the mouse to bring up the option menu, and select "**Send Network Command**"



Step2: Select "Immediate Report" in the field of Report mode.

Send Command via SMS	<b>X</b>	Send Command by Netwo	ık	×
Tracker name :	ynonne 🔽	Tracker name :	ynonne	*
Report mode :	Immediate Report	Report mode :	Immediate Report	-
Report method :	ZMS	Report method :	SMS	-
Send	Cancel	Send	Cancel	

Step3: Select "SMS" or "GPRS" or "SMS+GPRS" in the field of **Report method**, and then click "Send".

Select "**SMS**" as Report method: TR-151 will send position report to the phone number you set in Basic setup. (Refer to <u>4.1 TR Management Center Basic Setup</u>.)

Select "**GPRS**" as Report method: TR-151 will send position report to TR Management center shown as the picture below.

Output									
Name	Source_Tel	Local_Date	Local_Time	Gps_lat	Gps_lon	Gps_date	gps_time	gps_status	gps_alti
ynonne	0934567890	2008/04/28	10:38:03	22.33774	114.20454	2008/04/28	18:38:03	GPS 3D Fix	00161
ynonne	0934567890	2008/04/28	10:37:58	22.33613	114.20472	2008/04/28	18:37:58	GPS 3D Fix	00161
ynonne	0934507890	2008/04/28	10:37:53	22.33522	114.20490	2008/04/28	18:37:53	GPS 3D FIX	00161
•									
K K P P T	acker Data Logs	Query Result							

Select "**SMS+GPRS**" as Report method: TR-151 will send position report to the phone number you set in Basic setup and to TR Management Center

When you receive position report in the TR Management Center, you can make the location of that position report to show on Google map by clicking that report.



You can also click Satellite to see the location on satellite map.



## 4.3.3 Asking TR-151 to make periodic report

You can send command via SMS or send command via network to make TR-151 make periodic report. You could send command via network only when TR-151 is under GPRS period and disconnect mode, motion mode, park mode, Geo-fence mode and the report method must be GPRS or GPRS + SMS.

#### Step1:

#### Send command via SMS:

Select the TR-151, right click the mouse to bring up the option menu, and select "Send SMS Command"



#### Send command via Network:

Select the TR-151, right click the mouse to bring up the option menu, and select "**Send Network Command**"



Step2: Select "**Period Report**" in the field of **Return mode**.

Send Command via SMS	X	×	Send Command by Netwo	ık	×
Tracker name :	ynonne	-	Tracker name :	ynonne	*
Report mode :	Period Report	-	Report mode :	Period Report	-
Times :	1		Times :	1	
Return interval :	30 seconds	-	Return interval :	30 seconds	-
Report method :	SMS	*	Report method :	SMS	-
Send	Cancel		Send	Cancel	

Step 3: Select how many periodic reports TR-151 will send in the field of "**Times**", select the report interval in the field of "**Return interval**" and then click **Send** 

Under period report, you could only select SMS as the Report method.

If you would like TR-151 to send periodic report to TR management center, please select "Period and disconnect" as the Report mode.

TR-151 will send position report to the phone number you set in Basic setup. (Refer to <u>4.1 TR</u> <u>Management Center Basic Setup</u>.)

## 4.3.4 Asking TR-151 to make GPRS periodic report and then disconnect from TR Management Center

You can send command via SMS or via network to make TR-151 make GPRS periodic report and then disconnect from server. You could send command via network only when TR-151 is under GPRS period and disconnect mode, motion mode, park mode, Geo-fence mode and the report method must be GPRS or GPRS + SMS.

Step1:

#### Send command via SMS:

Select the TR-151, right click the mouse to bring up the option menu, and select "Send SMS Command"



#### Send command via network:

Select a connected TR-151, right click the mouse to bring up the option menu, and select "**Send Network Command**"



Step2: Select "Period and Disconnect Report" in the field of Report mode.

Send Command via SMS	Σ	K)	Send Command by Netwo	ork	×
Tracker name :	ynonne 👻		Tracker name :	Ynonne	4
Report mode :	Period and Disconnect report		Report mode :	Period and Disconnect report	-
Return interval :	30 seconds 🔹		Return interval :	30 seconds	-
	_				
Send	Cancel		Send	Cancel	

## Step3: Select the "Return interval" and then click "Send"

TR-151 will send position report to TR Management center shown as the picture below.

Name	Source Tel	Local Date	Local Time	Gns lat	Gns Ion	Gns date	ans time	ans status	ans alti	1
ritanic	Jource_rer	Local_Date	Local_mic	ops_luc	000-1011	ops_dute	gps_cime	gps_status	gps_utititi	-
ynonne	0934567890	2008/04/28	10:38:03	22.33774	114.20454	2008/04/28	18:38:03	GPS 3D Fix	00161	(
ynonne	0934567890	2008/04/28	10:37:58	22.33613	114.20472	2008/04/28	18:37:58	GPS 3D Fix	00161	(
ynonne	0934567890	2008/04/28	10:37:53	22.33522	114.20490	2008/04/28	18:37:53	GPS 3D FIX	00161	(
•										

## 4.3.5 Asking TR-151 to Do Voice Monitor

You can send command via SMS or via network to make TR-151 start Voice Monitor.

Step1:

#### Send command via SMS:

Select the TR-151, right click the mouse to bring up the option menu, and select "Send SMS Command"



#### Send command via network:

Select a connected TR-151, right click the mouse to bring up the option menu, and select "**Send Network Command**"



Step 2: Select Voice Monitor in the field of Report mode.

Send Command via SMS		Send Command by Netwo	ork 🛛 🔀
Tracker name :	ynonne 💌	Tracker name :	ynonne 💌
Report mode :	Voice Monitor	Report mode :	Voice Monitor
	N		N
	М		N
Send	Cancel	Send	Cancel

Step 3: Click Send.

TR-151 will call the phone number you set in Basic setup. (Refer to <u>4.1 TR Management Center</u> <u>Basic Setup</u>.)

## 4.3.6 Asking TR-151 to enter motion mode

Motion mode is for user to get the continual location report when the vehicle installed with TR-151 is moving. In addition to the continual location report, TR-151 will also send regular location report when the vehicle installed with TR-151 is not moving. You could send a SMS or network command to ask TR-151 to enter motion mode.

You can send command via SMS or send command via network to make TR-151 enter motion mode. You could send command via network only when TR-151 is under GPRS period and disconnect mode, motion mode, park mode, Geo-fence mode and the report method must be GPRS or GPRS + SMS.

Step1:

#### Send command via SMS:

Select the TR-151, right click the mouse to bring up the option menu, and select "Send Command (Skype)"



#### Send command via network:

Select a connected TR-151, right click the mouse to bring up the option menu, and select "**Send Network Command**"



Step 2: Select Motion Mode in the field of Report mode.

Send Command via SMS			Send Command by Netwo	ık	
Tracker name :	ynonne	*	Tracker name :	ynonne	*
Report mode :	Motion report	-	Report mode :	Motion report	-
	ß			Ą	
Report method :	SMS	-	Report method :	SMS	•
Regular Report Interval:	30	(Min)	Regular Report Interval:	30	(Min)
Motion Report Interval:	30	(Sec)	Motion Report Interval:	30	(Sec)
Sensitivity :	5		Sensitivity :	5	]
Return Phone number :			Return Phone number :		
Send	Cancel		Send	Cancel	

Step3: Select "SMS" or "GPRS" or "SMS+GPRS" in the field of Report method, and then click "Send".

Select "SMS" as Report method: TR-151 will send position report to the phone number you set in Basic setup. (Refer to <u>4.1 TR Management Center Basic Setup</u>.)

Select "GPRS" as Report method: TR-151 will send position report to TR Management center shown as the picture below.

Name	Source_Tel	Local_Date	Local_Time	Gps_lat	Gps_lon	Gps_date	gps_time	gps_status	gps_alti	ç
ynonne	0934567890	2008/04/28	10:38:03	22.33774	114.20454	2008/04/28	18:38:03	GPS 3D Fix	00161	(
ynonne	0934567890	2008/04/28	10:37:58	22.33613	114.20472	2008/04/28	18:37:58	GPS 3D Fix	00161	(
ynonne	0934507890	2008/04/28	10:37:53	22.33522	114.20490	2008/04/28	18:37:53	GPS 3D FIX	00101	C
•										

Select "SMS+GPRS" as Report method: TR-151 will send position report to the phone number you set in Basic setup and to TR Management Center

When you receive position report in the TR Management Center, you can make the location of that position report to show on Google map by clicking that report.



You can also click Satellite to see the location on satellite map.

Step 4: Set	"Regular Report	Interval" "Mot	ion Report Interva	l" "Sensitivity'	' and Phone Number"
0.00 +. 001	ricgului ricport		ion report interva	, ocnonivity	und i none number .

Item	Description	Default	Remarks
Regular Report Interval	The interval for TR-151 to send position report when it does not sense vibration	30 minutes	
Motion Report Interval	The interval for TR-151 to send position report when is senses vibration	30 seconds	5~86,400 seconds
Sensitivity	Set how many vibrations TR-151 senses over this sensitivity under sleep mode, it will send out the position report	5	
Phone Number	The phone number for receiving position report when the report method is SMS or SMS+GPRS		

Step 5: Click "Send".

## 4.3.7 Asking TR-151 to enter park mode

Park mode is for user to make TR-151 send alarm location report when the vehicle installed with TR-151 is moved. In addition to the alarm location report, TR-151 will also send regular location report when the vehicle installed with TR-151 is parked. You could send a SMS or network command to ask TR-151 to enter park mode.

You could send command via network only when TR-151 is under GPRS period and disconnect mode, motion mode, park mode, Geo-fence mode and the report method must be GPRS or GPRS + SMS.

Step1:

#### Send command via SMS:

Select the TR-151, right click the mouse to bring up the option menu, and select "Send Command (Skype)"



#### Send command via network:

Select a connected TR-151, right click the mouse to bring up the option menu, and select "**Send Network Command**"



Step 2: Select Park Mode in the field of Report mode.

Send Command via SMS			Send Command by Network			
Tracker name :	ynonne	-	Tracker name :	ynonne	+	
Report mode :	Park report	-	Report mode :	Park report	-	
Report method :	SMS	-	Report method :	SMS	-	
Regular Report Interval:	30	(Min)	Regular Report Interval:	30	(Min)	
Alarm Report Interval:	30	(Sec)	Alarm Report Interval:	30	(Sec)	
Sensitivity :	5		Sensitivity :	5		
Return Phone number :			Return Phone number :			
Send	Cancel		Send	Cancel		

Step3: Select "SMS" or "GPRS" or "SMS+GPRS" in the field of Report method, and then click "Send".

Select "SMS" as Report method: TR-151 will send position report to the phone number you set in Basic setup. (Refer to <u>4.1 TR Management Center Basic Setup</u>.)

Select "GPRS" as Report method: TR-151 will send position report to TR Management center shown as the picture below.

									2
Source_Tel	Local_Date	Local_Time	Gps_lat	Gps_lon	Gps_date	gps_time	gps_status	gps_alti	ç
0934567890	2008/04/28	10:38:03	22.33774	114.20454	2008/04/28	18:38:03	GPS 3D Fix	00161	(
0934567890	2008/04/28	10:37:58	22.33613	114.20472	2008/04/28	18:37:58	GPS 3D Fix	00161	(
0934507890	2008/04/28	10:37:53	22.33522	114.20490	2008/04/28	18:37:53	GPS 3D FIX	00161	C
acker Data Logs	Query Result								
	Source_Tel 0934567890 0934567890 0934567890	Source_Tel         Local_Date           0934567890         2008/04/28           0934567890         2008/04/28           0934567890         2008/04/28           0934567890         2008/04/28           0934567890         2008/04/28           0934567890         2008/04/28           0934567890         2008/04/28           0934567890         2008/04/28	Source_Tel         Local_Date         Local_Time           0934567890         2008/04/28         10:38:03           0934567890         2008/04/28         10:37:58           0934507890         2008/04/28         10:37:53           0934507890         2008/04/28         10:37:53           0934507890         2008/04/28         10:37:53	Source_Tel         Local_Date         Local_Time         Gps_lat           0934567890         2008/04/28         10:38:03         22.33774           0934567890         2008/04/28         10:37:58         22.33613           0934567890         2008/04/28         10:37:53         22.33513           0934567890         2008/04/28         10:37:53         22.33522	Source_Tel         Local_Date         Local_Time         Gps_lat         Gps_lon           0934567890         2008/04/28         10:38:03         22.33774         114.20454           0934567890         2008/04/28         10:37:58         22.33613         114.20472           0934567890         2008/04/28         10:37:53         22.33522         114.20490           III	Source_Tel         Local_Date         Local_Time         Gps_lat         Gps_lon         Gps_date           0934567890         2008/04/28         10:38:03         22.33774         114.20454         2008/04/28           0934567890         2008/04/28         10:37:58         22.33613         114.20472         2008/04/28           0934567890         2008/04/28         10:37:53         22.33522         114.20490         2008/04/28           0934567890         2008/04/28         10:37:53         22.33522         114.20490         2008/04/28           III	Source_Tel         Local_Date         Local_Time         Gps_lat         Gps_lon         Gps_date         gps_time           0934567890         2008/04/28         10:38:03         22.33774         114.20454         2008/04/28         18:38:03           0934567890         2008/04/28         10:37:58         22.33613         114.20472         2008/04/28         18:37:58           0934507890         2008/04/28         10:37:53         22.33522         114.20490         2008/04/28         18:37:53           III	Source_Tel         Local_Date         Local_Time         Gps_lat         Gps_lon         Gps_date         gps_time         gps_status           0934567890         2008/04/28         10:38:03         22.33774         114.20454         2008/04/28         18:38:03         GPS 3D Fix           0934567890         2008/04/28         10:37:58         22.33613         114.20472         2008/04/28         18:37:58         GPS 3D Fix           0934507890         2008/04/28         10:37:53         22.33522         114.20490         2008/04/28         18:37:53         GPS 3D Fix           III	Source_Tel         Local_Date         Local_Time         Gps_lat         Gps_lon         Gps_date         gps_time         gps_status         gps_alti           0934567890         2008/04/28         10:38:03         22.33774         114.20454         2008/04/28         18:38:03         GPS 3D Fix         00161           0934567890         2008/04/28         10:37:58         22.33613         114.20472         2008/04/28         18:37:58         GPS 3D Fix         00161           0934507890         2008/04/28         10:37:53         22.33522         114.20490         2008/04/28         18:37:53         GPS 3D Fix         00161           Image: Source Tele State

Select "SMS+GPRS" as Report method: TR-151 will send position report to the phone number you set in Basic setup and to TR Management Center

When you receive position report in the TR Management Center, you can make the location of that position report to show on Google map by clicking that report.



You can also click Satellite to see the location on satellite map.

Step 4: Set "Regular Report Interval", "Motion Report Interval", "Sensitivity" and Phone Number".

Item	Description	Default	Remarks
Regular Report Interval	The interval for TR-151 to send position report when it does not sense vibration	30 minutes	
Motion Report Interval	The interval for TR-151 to send position report when is senses vibration	30 seconds	5~86,400 seconds
Sensitivity	Set how many vibrations TR-151 senses over this sensitivity under sleep mode, it will send out the position report	5	
Phone Number	The phone number for receiving position report when the report method is SMS or SMS+GPRS		

Step 5: Click "Send".

## 4.3.8 Comparison between parking mode, motion mode, sleeping mode, and normal mode

Function/Mode	Normal mode	Motion mode	Parking mode	Sleeping mode
GPS		Off	Off	Off
GSM	On	On	On	Off
Motion sensor	Off	On	On	On

#### Comparison between parking mode, motion mode, sleeping mode, and normal mode

## 4.4 TR Management Center Data Query

All the data sent from TR-151 will be stored in the database of TR Management center. You can make this data show on Google map or export them into KML format.

## 4.4.1 Look up for history data

You can look up for the history data that TR-151 sent to TR Management center by Query Tool.

Query Tool X								
Find history data								
Tracker : ynonne 💌								
Type : Tracker Time 🔹								
Start time :								
5/15/2008 🗾								
7:41:18 AM								
End time :								
5/15/2008 🗨								
7:41:18 AM								
Find Export Delete								
Find result								
Total records :								
Page number :								
Page records :								
Page records :								
Page records : Prev Page Next Page								
Page records : Prev Page Next Page Coordinate locate :								
Page records : Prev Page Next Page Coordinate locate : Input WGS84 coordinate :								
Page records : Prev Page Next Page Coordinate locate : Input WGS84 coordinate : Lat :								
Page records : Next Page Coordinate locate : Input WGS84 coordinate : Lat : Lon :								

"Query Tool"

Item	Description		
Tracker	Select the tracker whose history data you'd like to look up for		
Туре	To look up for the data according to the time of Tracker's timer		
	(Tracker Time) or the receiving time of the PC (Local Time)		
Start time	The start time of the period of looking up the history data		
End Time	The end time of the period of looking up the history data		

Find	Start to look up for the data					
Export	Export the data into KML format					
Delete	Delete query results					
Total records	Display the quantity of the history data between the Start time					
	and End time					
Page number	Display the page of the history data (Each page has 200					
	records)					
Prev Page	Go to the previous page					
Next Page	Go to the next page					

After specifying all the queried conditions, click the **Find** button and the query results will be shown on the Data Output Area..

		1								
Name	Source_Tel	Local_Date	Local_Time	Gps_lat	Gps_lon	Gps_date	gps_time	gps_status	gps_alti	ç
γnonne	0934567890	2008/04/28	10:38:03	22.33774	114.20454	2008/04/28	18:38:03	GPS 3D Fix	00161	(
ynonne	0934567890	2008/04/28	10:37:58	22.33613	114.20472	2008/04/28	18:37:58	GPS 3D Fix	00161	(
ynonne	0934567890	2008/04/28	10:37:53	22.33522	114.20490	2008/04/28	18:37:53	GPS 3D FIX	00101	(
•										•
H I F F T	racker Data Logs	Query Result								

Query Result list

The results will also be shown on the Google Map.


Query results displayed on the Google Map

If you select a piece of result under the Data Output Area, its location and corresponding details will be shown on the Google Map.



If you click on one of the tracker icon on the Google map, the selected tracker's data under Data Output Area will be highlighted.

# 4.4.2 Export the data into KML format

You can export the queried data into KML format for others to show the data on the Google map or Google earth.

Step 1: Please refer to 4.4.1 to look up for the history data.

Step 2: Please click the **Export** button on the Query Tool. And then enter a name for the exported data in the field of File name.

Cave As		The work	1	<b>X</b>
Save in:	Documents		• 🗧 🗧	* Ⅲ▼
Name	Date modified	Туре	Size	» 🔺
🔋 🔒 ASUS				
🔋 🐌 CyberLin	nk			=
🔋 My Devi	ce Emulators			
🔑 My Weblog Posts				
🔋 🐌 SQL Serv	er Management Stud	lio Express		
🔋 🔝 Updater	5			•
File name:				Save
Save as type:	KML FILE (*.KML)		•	Cancel

Enter a name for the exported KML file

# 4.4.3 Delete the history data in the database

You can delete the history data in the database.

Step 1: Select the name of the tracker and time interval whose data you'd like to delete.

Query Tool		×
Find histor	y data ———	
Tracker :	ynonne	*
Туре :	Tracker Time	-
Start time	):	
5/15	/2008	-
7:41:	18 AM	<u>.</u>
- End time	:	-
5/15	/2008	•
7:41:	18 AM	÷
Find	Export Delet	
- Find result		
Total reco	nds:	
Page num	ber:	
Page reco	rds:	
Prev Pa	ge Next Page	
Coordinate	e locate :	_
Input WG	S84 coordinate :	
Lat :		
Lon :		
Locate		

Step 2: Click the **Delete** button.

# 4.5 Send SMS to set TR-151

In <u>4.2.1 Adding and setting a TR-151</u>, you can connect TR-151 with TR Management center by the USB cable to set its parameters. You can also set its parameters by SMS via the Skype software in the TR Management center.

For the requirement of sending SMS by Skype, please refer to 3.4 Skype setup.

# 4.5.1 Asking TR-151 to enter Geo-fence mode

Geo-fence is that setting a rectangular or circular area as permissible area or restricted area. When TR-151 gets out the permissible area or goes in to the restricted area, TR-151 will send its location to the preset mobile phone number via SMS or to TR Management center via network.

You can send command via SMS to make TR-151 enter Geo-fence mode. The commands include choosing the rectangular or circular areas (**Rectangle** or **Circle**), getting in the restricted areas or getting out the permissible areas to send alarm (**In Geo-fence** or **Out Geo-fence**), time intervals of alarm report (**Report interval**), **Number of reports**, and **Report format**.

TR-151 will start to get fixed of the location as soon as it enters Geo-fence mode. TR-151 will keep fixing the location. Once TR-151 detect it enters restricted area or gets out the permissible area, it will send its location to the preset mobile phone number via SMS or to TR Management center via network.

• User can set up to 10 rectangular or circular boundaries.

Step1: Select the TR-151 and right click to select Setup by SMS  $\rightarrow$  Geo-fence Setup.



Step 2: Enter and select the parameters.



You can refer to the table below for the meaning of the Geo-fence parameters.

Item	Description		
Geofence Type	Choose to set a rectangular ( <b>Rectangle</b> ) or a circular ( <b>Circle</b> )		
	area		
Alarm Type	Choose to send location report when TR-151 gets in (In		
	Geofence) or get out (Out Geofence) the area		
Report interval	The interval of sending location report when TR-151 disobey		
	Geo-fence rule		
Number of reports	How many reports TR-151 will send when TR-151 disobey		
	Geo-fence rule		
Report format	Choose the report format as NEMA format or text format (Only		
	available for SMS or SMS+GPRS report method)		
Report Method	Choose to send position report by SMS or GPRS or		
	SMS+GPRS		
Upper Left coordinate	The coordinates of the Geo-fence's upper left corner		
	(Rectangle)		
Bottom Right coordinate	The coordinates of the Geo-fence's lower right corner		
	(Rectangle)		
Center point	The coordinates for the center of the Geofence (Circle)		

TR-151 and Google map/ earth use different units to express longitudes and latitudes. The unit used in TR-151's longitude and latitude is degree and minute with a 4-digit decimal fraction while the unit in Google Map/Earth is degree, minute, and second. So please convert the unit to degree and minute with a 4-digit decimal fraction before setting Geo-fence.

TR-151's longitude and latitude is like E12129.3167 and N2459.8479

The number 121 represents longitude's degree and 29.3167 represents the longitude's minute. The number 24 represents the unit of latitude's degree, and 59.8479 represents the unit of latitude's minute.

The degree of TR-151's longitude must be 3 digits. The degree of TR-151's latitude must be 2 digits. If you are in the areas where the longitude's degree is not 3 digits or latitude's degree is not 2 digits, please enter 0 for the first and second digits.

### Example1:

The longitude and latitude from Google earth is E121°29'15.72" & N24°59'47.40"

The number 121 represents longitude's degree, 29 represent the minute, and 15.72 represents second.

The number 24 represents latitude's degree, 59 represent the minute, and 47.40 represents second.

You can convert E121°29'15.72" & N24°59'47.40" into the unit of TR-151's longitudes and latitude as the method below.

15.72 (second) ÷60=0.262 (minute)

47.40 (second) ÷60=0.79 (minute)

The expression of TR-151's longitude and latitude is E12129. 2620 & N2459.7900

## Example 2:

The longitude and latitude from Google earth is W1°12'55.05" & N5°55'17.93"

You can convert W1°12'55.05" & N5°55'17.93" into the unit of TR-151's longitudes and latitude as the method below.

55.05 (second) ÷60= 0.9175 (minute)

17.93 (second) ÷60= 0.2988 (minute)

The expression of TR-151's longitude and latitude is W00112.9175 & N0555.2988

## Example 3

If you get a set of longitude and latitude, E21.4877° & S4.9965°, you can convert it into TR-151's longitudes and latitude as the method below.

0.4877 (degree) x 60= 29.262 (minute)

0.9965 (degree) x60=59.79 (minute)

The expression of TR-151's longitude and latitude is E02129.2620 & S0459.7900

Step 4: Click **OK** to send out the setting of Geo-fence to the TR-151 by Skype's SMS.

A dialog window for informing that Skype has sent out the SMS will appear. You can operate the other functions during the process of sending SMS.

**NOTE:** In addition to enter the coordinates to set the Geo-fence, you can also draw a rectangular or circular area on the Google map to set the Geo-fence.

#### Draw a rectangular area on the Google map to set Geo-fence:

Step 1: Select Rectangle in the field of Geo-fence type.

Geofence type:	Rectangle	-
----------------	-----------	---

Step 2: Click the Add from Google Map button



Step3: Click and drag the mouse to draw a rectangle as the Geo-fence range on the Google map. The coordinates of the upper left corner and bottom right corner will be automatically loaded to the field of coordinate.

		Heesing	
SMS Geofence setup :	cm punk		
Geofence type:	Rectangle	↑ Saskatchewan 地圖 衛星	▲ 混合地圖
Alarm type:	In Geofence 🔹		A final
Report interval :	30 (Sec)	amrosa North o	and the
Number of reports :	3	er + Pasketon	
Report format :	1 - NMEA format 💌		Same .
Report method :	GPRS 🔹	Yorkton	State.
UpperLeft :(Lon : Lat)		Medicine Swift Regina	A Bar
		thbridge Woose Jaw Brandon Winnip	eg o
BottomRight:(Lon : Lat)		Weyburn	Kenora
		Havre Williston Minot	1 mar
	d from GoogleMan	E Falls	Bemidji Hibbing
Notice :		Helena Montana Dickinson Dakota Far	go
* TR-151 is under Geo	ofence mode.	Butte Billinge Billinge	Minnesota
The other report mod	les will be stopped.	Bozeman Dillings O O O Aberdeen	St Cloud
		South	Minneapolis
		Calleur Calle	
		Pocstello Wyoming	Canada
		Nor	3
		POWERED BY Laramie Nebraska	United
OK	Cancel	地圖資料 @2008 Tele Atlas - 使用條款	States

Drawing the rectangular area with the mouse

		Deserve	
SMS Geofence setup :	cm punk		
Geofence type:	Rectangle		混合地圖
Alarm type:	In Geofence 🔹		- Aller
Report interval :	30 (Sec)	amrosa North o	
Number of reports :	3	er O Saskaton	の作品を見
Report format :	1 - NMEA format 💌		
Report method :	GPRS 🔹	Yorkton	and the set
UpperLeft :(Lon : Lat)		Medicine Swift Regina	- There
-106.787109	50.148746	thoridog	9
BottomRight:(Lon : Lat)		Weyburn	- A
-95.449219	45.675482	Williston Minot Grand For	ks
Ad	ld from GoogleMap	Falls North	Bemidji Hibbing
Notice :		Helena Montana Dickinson Dakota Fargo	Cloqueto
* TR-151 is under Geo	ofence mode.	Butte Bozeman Billings	Minnesota
The other report mod	les will be stopped.	Aberdeen	Mineralia
		Gilette South	Minneapoils
		Idaho Falis Rapid City Si	Canada
		Pocatello Wyoming	1 20
		Scottsbluff Nor	7
ОК	Cancel	Laramie Nebraska 地圖資料 @2008 Tele Adjas - 使用條款	States

Loads the coordinates into the coordinate fields

### Draw a circular area on the Google map to set Geo-fence:

Step 1: Select **Circle** in the field of Geo-fence type.

Geofence type: Circle 💌

Step 2: Click the Add from Google Map button



Step 3: Left click on one point of the Google map as the central point of the circle. A balloon icon will appear. Drag the mouse to the position of the other side of the radius, and then left click the mouse. The circle will be shown on the Google map. And the coordinate of the central point and the radius will be automatically loaded into the fields.



Clicking on the center and moving the cursor will make a line appear



The system loads the center coordinates and radius into the coordinate fields

# 4.5.2 Set the SMS default return phone number

You can enable or disable the SMS default return phone number and assign the phone number as the default for receiving return SMS.

Step 1: Select the TR-151 and right click to select Setup by SMS  $\rightarrow$  SMS Return Number Setting.



Step 2: Choose to Enable or Disable the SMS default return phone number. If you select to enable the SMS default return phone number, please enter the phone number.

Default report number setup :	🔀
Enable or disalbe SMS default ret phone number :	un
Disable	-
Default return phone number :	
OK Cancel	

# 4.5.3 Set the Maximum GPS Fixing Time

You can set a period of time for TR-151 to get fixed of the location. When TR-151 cannot get fixed of the location within the period, TR-151 will send out the last location report.

Step 1: Select the TR-151 and right click to select Setup by SMS → Maximum GPS fixing time



Step 2: Enter the value for Maximum GPS fixing time.

Maximun GPS fixing time 🔀		
Maxinmum GPS	fixing time :	
3	(Min)	
ОК	Cancel	

# 4.5.4 Set default report mode

You can set the default report mode for TR-151. When TR-151 is powered on, it will enter the default report mode.

Step 1: Select the TR-151 and right click to select Setup by SMS → Default Report Mode Setting



Default report mode menu

Step 2: Select the default report mode, report format, and enter the concerning parameters.

Report mod setup : ynonne		×
Default report mode:	SMS Period Report: mode 1	•
Report format:	1 - NMEA format	-
Default return phone number:	l I	
Report interval:	30 (Sec)(10~ 86400)	
Number of reports:	0	
ОК	Cancel	

You can refer tot the table below to enter the parameters.

Item	Description	
Default report mode	Select the report mode after TR-151 is powered on	
Report format	Select NEMA format or text format	
Default return phone number	Enter the phone number for receiving SMS of default	
	report mode	
Report interval	Enter the interval between 2 reports	

Number of reports	Enter how many reports will be sent out in the default
	report mode

# 4.5.5 Set SOS phone number

You can set the phone number for receiving emergency report after SOS button is pressed.

**Note:** If the report method of SOS you set in <u>4.2.1.2 Default report mode</u> is GPRS, the SOS alarm report will be sent to TR Management center, not the phone number

Step 1: the TR-151 and right click to select Setup by SMS → SOS Number Setting

tain Tool Trackers List:	× ↑ s∈ ☆ → inlan	
	Setup by Network	SMS Return Number Setting
Show Track point on map	Edit Tracker Delete Tracker	Maximum GPS fixing time Default Report Mode Setting SOS Number Setting
SMS Command Status :	is Türkiye ce Turkey Syria	Geofence Setup Motion mode Setting Sleeping mode Setting GPRS Setting

Step 2: Enter the phone number for receiving emergency report after SOS button is pressed.

SOS num	ber setup : ynonne	×
SOS 1 :	[	
SOS 2 :		
SOS 3 :		
	OK Cancel	

# 4.5.6 Set the Motion Mode's parameters

You can set the parameters of Motion mode by Skype's SMS.

Step 1: the TR-151 and right click to select Setup by SMS  $\rightarrow$  Motion Mode Setting



Step 2: Enter the parameters on the window of motion mode setting. You can refer to <u>4.5.6 Set the Motion Mode's parameters</u> to enter the parameters

Motion setting(TR-151) :	cm punk	<u> </u>
Regular Report Interval:	30	(Min)(30~1440)
Motion Report Interval :	30	(Sec)(10~86400)
Sensitivity :	10	
Return number :		
OK	Cancel	

Step 3: Click OK button to send out the setting by Skype's SMS

#### NOTE:

- 1. If you enter 0 in the field of **Number of reports**, TR-151 will not stop sending the report until TR-151 does not sense the vibration.
- 2. The Sensitivity is that while TR-151 senses the vibration over the sensitivity, it will send out the position report.

# 4.5.7 Set the Sleeping Mode's parameters

When TR-151 is under sleeping mode, its GSM module and GPS module will be turned off, the motion sensor will be turned on. Just like being under parking mode, it will send out SMS while it senses vibration. But TR-151 will not receive SMS under sleeping mode.

Making TR-151 to enter sleeping mode, you have to adjust DIP switch 4 to ON when TR-151 is powered off.

You can set the parameters of sleeping mode by Skype's SMS.

Main Tool  $\wedge$ Trackers List: < ri≯  $\rightarrow$ 🛨 🦓 cm punk(TR-151) J. Send Network Command Send SMS Command Setup by Network ٠ Setup by SMS . SMS Return Number Setting Maximum GPS fixing time Edit Tracker Default Report Mode Setting Delete Tracker SOS Number Setting Show Track point on map Geofence Setup SMS Command Status Motion mode Setting Türkive άς Sleeping mode Setting Turkey 2 Netwrok Service GPRS Setting Syria Iraq Normal Setting Start End Pakistan

Step 1: Select the TR-151 and right click to select Setup by SMS → Sleeping Mode Setting

Step 2: Enter the parameters on the window of sleeping mode setting. You can refer to 4.2.1.3 Sleep mode setup to enter the parameters

Sleeping mode setting(TR-151) : cm punk 🛛 🛛 🔀			
Regular report interval:	30	(Min)(30~1440)	
Alarm report interval :	30	(Sec)(10~86400)	
Number of reports :	0		
Sensitivity :	10		
Return number :			
OK		ancel	

Step 3: Click **OK** button to send out the setting by Skype's SMS

NOTE:

- 1. If you enter 0 in the field of **Number of reports**, TR-151 will not stop sending the report until TR-151 does not sense the vibration.
- 2. The Sensitivity is that while TR-151 senses the vibration over the sensitivity, it will send out

the position report.

# 4.5.8 Set the GPRS parameters

You can set the GPRS parameters by Skype's SMS.

Step 1: Step 1: Select the TR-151 and right click to select Setup by SMS → GPRS Setting



Step 2: Enter the parameters on the window of GPRS setting. You can refer to <u>4.2.1.4 TR-151 GPRS setting</u> to enter the parameters

GPRS Setting(TR151)		
Port :	5000	
APN :		
User name :		
User password :		
DNS1 :		
DNS2 :		
GPRS Server IP addr	ess or Domain name:	
	I	
OK	Cancel	

# 4.5.9 Set the Normal Setting

You can set the Normal setting parameters by Skype's SMS.

Step 1: Step 1: Select the TR-151 and right click to select Setup by SMS → GPRS Setting



Step 2: Enter the parameters on the window of Normal setting.

Normal setting (TR-151)		
Name :		
Time Zone :	ON	-
Report method :	SMS/GPRS	
Echo :	ON	-
OK	Cancel	]

Item	Description		
Name	Enter a name for changing the present name of TR-151		
Time Zone	On: SMS sent from TR-151 will be converted to local time.		
	Off: SMS sent from TR-151 will include the Coordinated Universal		
	Time (UTC).		
Report Method	Select TR-151 to send position report by SMS or GPRS or		
	SMS+GPRS		
Echo	<b>On:</b> Enable TR-151 to send return SMS or command to the phone number or server to confirm it has received the command		
	Off: Disable TR-151 to send return SMS or command to the phone		

number or server to confirm it has received the command
---

# 4.6 Send command via network to set TR-151

In <u>4.2.1 Adding and setting a TR-151</u>, you can connect TR-151 with TR Management center by the USB cable to set its parameters. In <u>4.5 Send SMS to set TR-151</u> you can also set its parameters by SMS via the Skype software in the TR Management center. You can also set the parameters of TR-151 by network's command.

You could set the parameters of TR-151 via network only when TR-151 is under GPRS period and disconnect mode, motion mode, park mode, Geo-fence mode and the report method must be GPRS or GPRS + SMS.

# 4.6.1 Asking TR-151 to enter Geo-fence mode

Geo-fence is that setting a rectangular or circular area as permissible area or restricted area. When TR-151 gets out the permissible area or goes in to the restricted area, TR-151 will send its location to the preset mobile phone number via SMS or to TR Management center via network.

You can send command via network to make TR-151 enter Geo-fence mode. The commands include choosing the rectangular or circular areas (**Rectangle** or **Circle**), getting in the restricted areas or getting out the permissible areas to send alarm (**In Geo-fence** or **Out Geo-fence**), time intervals of alarm report (**Report interval**), **Number of reports**, and **Report format**.

TR-151 will start to get fixed of the location as soon as it enters Geo-fence mode. TR-151 will keep fixing the location. Once TR-151 detect it enters restricted area or gets out the permissible area, it will send its location to the preset mobile phone number via SMS or to TR Management center via network.

*Note:* TR-151 will exit from geo-fence mode after it sends out the geo-fence alarm.

Step1: Select the TR-151 and right click to select Setup by Network  $\rightarrow$  Geo-fence Setup.

Main Tool - Trackers List: 	× s inlan Send Network Command Send SMS Command	
	Setup by Network	SMS Return Number Setting Maximum GPS fixing time Default Report Mode Setting SOS Number Setting
Show Track point on map SMS Command Status : Netwrok Service :	mania aç Türkiye Turkey Syria	Geofence Setup Motion mode Setting Sleeping mode Setting GPRS Setting Normal Setting

Step 2: Enter and select the parameters.



You can refer to the table below for the meaning of the Geo-fence parameters.

ltem	Description		
Geofence Type	Choose to set a rectangular (Rectangle) or a circular (Circle)		
	area		
Alarm Type	Choose to send location report when TR-151 gets in (In		
	Geofence) or get out (Out Geofence) the area		
Report interval	The interval of sending location report when TR-151 disobey		
	Geo-fence rule		
Number of reports	How many reports TR-151 will send when TR-151 disobey		
	Geo-fence rule		
Report format	Choose the report format as NEMA format or text format (Only		
	available for SMS or SMS+GPRS report method)		
Report Method	Choose to send position report by SMS or GPRS or		
	SMS+GPRS		
Upper Left coordinate	The coordinates of the Geo-fence's upper left corner		
	(Rectangle)		
Bottom Right coordinate	The coordinates of the Geo-fence's lower right corner		
	(Rectangle)		
Center point	The coordinates for the center of the Geo-fence (Circle)		
Radius	Geo-fence radius (Circle)		

TR-151 and Google map/ earth use different units to express longitudes and latitudes. The unit used in TR-151's longitude and latitude is degree and minute with a 4-digit decimal fraction while the unit in Google Map/Earth is degree, minute, and second. So please convert the unit to degree and minute with a 4-digit decimal fraction before setting Geo-fence.

TR-151's longitude and latitude is like E12129.3167 and N2459.8479

The number 121 represents longitude's degree and 29.3167 represents the longitude's minute. The number 24 represents the unit of latitude's degree, and 59.8479 represents the unit of latitude's minute.

The degree of TR-151's longitude must be 3 digits. The degree of TR-151's latitude must be 2 digits. If you are in the areas where the longitude's degree is not 3 digits or latitude's degree is not 2 digits, please enter 0 for the first and second digits.

## Example1:

The longitude and latitude from Google earth is E121°29'15.72" & N24°59'47.40"

The number 121 represents longitude's degree, 29 represent the minute, and 15.72 represents second.

The number 24 represents latitude's degree, 59 represent the minute, and 47.40 represents second.

You can convert E121°29'15.72" & N24°59'47.40" into the unit of TR-151's longitudes and latitude as the method below.

15.72 (second) ÷60=0.262 (minute)

47.40 (second) ÷60=0.79 (minute)

The expression of TR-151's longitude and latitude is E12129. 2620 & N2459.7900

## Example 2:

The longitude and latitude from Google earth is W1°12'55.05" & N5°55'17.93"

You can convert W1°12'55.05" & N5°55'17.93" into the unit of TR-151's longitudes and latitude as the method below.

55.05 (second) ÷60= 0.9175 (minute)

17.93 (second) ÷60= 0.2988 (minute)

The expression of TR-151's longitude and latitude is W00112.9175 & N0555.2988

## Example 3

If you get a set of longitude and latitude, E21.4877° & S4.9965°, you can convert it into TR-151's longitudes and latitude as the method below.

0.4877 (degree) x 60= 29.262 (minute)

0.9965 (degree) x60=59.79 (minute)

The expression of TR-151's longitude and latitude is E02129.2620 & S0459.7900

Step 4: Click **OK** to send out the setting of Geo-fence to the TR-151 by Skype's SMS.

A dialog window for informing that Skype has sent out the SMS will appear. You can operate the other functions during the process of sending SMS.

**NOTE:** In addition to enter the coordinates to set the Geo-fence, you can also draw a rectangular or circular area on the Google map to set the Geo-fence.

### Draw a rectangular area on the Google map to set Geo-fence:

Step 1: Select **Rectangle** in the field of Geo-fence type.

Geofence type: Rectangle

Step 2: Click the Add from Google Map button



Step3: Click and drag the mouse to draw a rectangle as the Geo-fence range on the Google map. The coordinates of the upper left corner and bottom right corner will be automatically loaded to the field of coordinate.



#### Drawing the rectangular area with the mouse



#### Loads the coordinates into the coordinate fields

#### Draw a circular area on the Google map to set Geo-fence:

Step 1: Select Circle in the field of Geo-fence type.

Geofence type: Circle 🔹

#### Step 2: Click the Add from Google Map button



Step 3: Left click on one point of the Google map as the central point of the circle. A balloon icon will appear. Drag the mouse to the position of the other side of the radius, and then left click the mouse. The circle will be shown on the Google map. And the coordinate of the central point and the radius will be automatically loaded into the fields.



Clicking on the center and moving the cursor will make a line appear

SMS Geofence setup :	cm punk		
Geofence type:	Circle	-	King A Brovary Varva Varva Maga A Brovary Maga A Brovary Maga A Brovary Maga A Brovary A Brovar
Alarm type:	In Geofence	-	K€ ₩ → Vahotyn
Report interval :	30 (	(Sec)	Hevak U
Number of reports :	3		
Report format :	1 - NMEA forma	at 💌	Kaniy Khorol
Report method :	GPRS	-	Tara ha Zolotonosha O OChornobai Poltava
Center point :(Lon : Lat)			Krasn
32.091064	48.632909		- Revisianka
Radius :			Vatutine Oleksandrivka
137755	(Meter)		THE CONTINUES ON THE CONTINUES
6A	ld from GoogleMa	p	Oleksandriia
Notice :			and the second sec
* TR-151 is under Geofence mode.			Novhorboka
The other report mod	les will be stopped.		Pervomais'k
			Vraduvka
			Ordzhot Protection
			- 751 - TNovovoronts - Ykpaïha
			o Verywycep by Bashtanka Bashtanka Zaporzhzhia
ОК	Cancel		COND資料 ©2008 AND, Geocentre Consulting, Tele Atlas - 使用保款

The system loads the center coordinates and radius into the coordinate fields

# 4.6.2 Set the SMS default return phone number

You can enable or disable the SMS default return phone number and assign the phone number as the default for receiving return SMS.

Step 1: Select the TR-151 and right click to select Setup by Network  $\rightarrow$  SMS Return Number Setting.



Step 2: Choose to Enable or Disable the SMS default return phone number. If you select to enable the SMS default return phone number, please enter the phone number.

Default report number setup :	×
Enable or disalbe SMS default return phone number :	
Disable 🔽	
Default return phone number :	
Leone Leone	J

Step 3: Click **OK** button to send out the setting by network.

# 4.6.3 Set the Maximum GPS Fixing Time

You can set a period of time for TR-151 to get fixed of the location. When TR-151 cannot get fixed of the location within the period, TR-151 will send out the last location report.

Step 1: Select the TR-151 and right click to select Setup by Network  $\rightarrow$  Maximum GPS fixing time



Step 2: Enter the value for Maximum GPS fixing time.

Maximun GPS fixing time 🔀			
Maxinmum GPS fixing time :			
3	(Min)		
ОК	Cancel		

# 4.6.4 Set default report mode

You can set the default report mode for TR-151. When TR-151 is powered on, it will enter the default report mode.

Step 1: Select the TR-151 and right click to select Setup by Network  $\rightarrow$  Default Report Mode Setting



Default report mode menu

Step 2: Select the default report mode, report format, and enter the concerning parameters.

Report mod setup : ynonne		×
Default report mode:	SMS Period Report: mode 1	•
Report format:	1 - NMEA format	*
Default return phone number:	l Ţ	
Report interval:	30 (Sec)(10 ~ 86400)	
Number of reports:	0	
ОК	Cancel	

You can refer tot the table below to enter the parameters.

Item	Description
Default report mode	Select the report mode after TR-151 is powered on
Report format	Select NEMA format or text format
Default return phone number	Enter the phone number for receiving SMS of default
	report mode
Report interval	Enter the interval between 2 reports

Number of reports	Enter how many reports will be sent out in the default
	report mode

# 4.6.5 Set SOS phone number

You can set the phone number for receiving emergency report after SOS button is pressed.

**Note:** If the report method of SOS you set in <u>4.2.1.2 Default report mode</u> is GPRS, the SOS alarm report will be sent to TR Management center, not the phone number

Step 1: the TR-151 and right click to select Setup by Network → SOS Number Setting



Step 2: Enter the phone number for receiving emergency report after SOS button is pressed.

SOS num	ber setup : ynonne 🛛 🛛 🔀
SOS 1 :	I
SOS 2 :	
SOS 3 :	
	OK Cancel

# 4.6.6 Set the Motion Mode's parameters

You can set the parameters of Motion mode by network command.

Step 1: the TR-151 and right click to select Setup by Network → Motion Mode Setting



Step 2: Enter the parameters on the window of motion mode setting. You can refer to <u>4.5.6 Set the Motion Mode's parameters</u> to enter the parameters

Motion setting(TR-151) :	cm punk	×
Regular Report Interval:	30	(Min)(30~1440)
Motion Report Interval :	30	(Sec)(10~86400)
Sensitivity :	10	
Return number :		
OK	Cancel	

Step 3: Click OK button to send out the setting by Skype's SMS

#### NOTE:

- 1. If you enter 0 in the field of **Number of reports**, TR-151 will not stop sending the report until TR-151 does not sense the vibration.
- 2. The Sensitivity is that while TR-151 senses the vibration over the sensitivity, it will send out the position report.

# 4.6.7 Set the Sleeping Mode's parameters

When TR-151 is under sleeping mode, its GSM module and GPS module will be turned off, the motion sensor will be turned on. Just like being under parking mode, it will send out SMS while it senses vibration. But TR-151 will not receive SMS under sleeping mode.

Making TR-151 to enter sleeping mode, you have to adjust **DIP switch 4 to ON** when TR-151 is powered off. TR-151 will enter sleeping mode when you power it on again. If you want to exit from sleeping mode, please turn off the power, adjust **DIP switch 4 to OFF**, and then power it on again.

You can set the parameters of sleeping mode by network command.

🛨 🚜 cm punk(TR-151)		a second
	Send Network Command Send SMS Command	10.32
	Setup by Network	SMS Return Number Setting
	Setup by SMS	Maximum GPS fixing time
	<u>E</u> dit Tracker Delete Tracker	Default Report Mode Setting SOS Number Setting
🗸 Show Track point on map	TERE	Geofence Setup
MC Common 1 Chatra	mania 🖉	Motion mode Setting
MS Command Status :		Sleeping mode Setting
	ác Türkiye ce Turkey	GPRS Setting
letwrok Service :		Normal Setting

Step 1: Select the TR-151 and right click to select Setup by Network  $\rightarrow$  Sleeping Mode Setting

Step 2: Enter the parameters on the window of sleeping mode setting. You can refer to 4.2.1.3 Sleep mode setup to enter the parameters

Sleeping mode setting(TR-151) : cm punk 🛛 🛛 🔀			
Regular report interval:	30	(Min)(30~1440)	
Alarm report interval :	30	(Sec)(10~86400)	
Number of reports :	0		
Sensitivity :	10		
Return number :			
ОК		ancel	

Step 3: Click **OK** button to send out the setting by network

## NOTE:

- 1. If you enter 0 in the field of **Number of reports**, TR-151 will not stop sending the report until TR-151 does not sense the vibration.
- 2. The Sensitivity is that while TR-151 senses the vibration over the sensitivity, it will send out the position report.

# 4.6.8 Set the GPRS parameters

You can set the GPRS parameters by network command.

Step 1: Step 1: Select the TR-151 and right click to select Setup by Network → GPRS Setting



Step 2: Enter the parameters on the window of GPRS setting.

You can refer to 4.2.1.4 TR-151 GPRS setting to enter the parameters

GPRS Setting(TR151)	
Port :	5000
APN :	
User name :	
User password :	
DNS1 :	
DNS2 :	
GPRS Server IP addr	ess or Domain name:
	Ι
OK	Cancel

Step 3: Click OK button to send out the setting by network command

# 4.6.9 Set the Normal Setting

You can set the Normal setting parameters by network command.

Step 1: Step 1: Select the TR-151 and right click to select Setup by Network → GPRS Setting

Main Tool - Trackers List: 	× ↑ Send Network Command Send SMS Command	
	Setup by Network Setup by SMS Edit Tracker Delete Tracker	SMS Return Number Setting     Maximum GPS fixing time     Default Report Mode Setting     SOS Number Setting
Show Track point on map SMS Command Status : Netwrok Service :	aria	Geofence Setup Motion mode Setting Sleeping mode Setting GPRS Setting Normal Setting

Step 2: Enter the parameters on the window of Normal setting.

Normal setting (TR	-151)	×
Name :		
Time Zone :	ON	-
Report method :	SMS/GPRS	-
Echo :	ON	-
OK	Cancel	

Item	Description
Name	Enter a name for changing the present name of TR-151
Time Zone	On: SMS sent from TR-151 will be converted to local time.
	Off: SMS sent from TR-151 will include the Coordinated Universal
	Time (UTC).
Report Method	Select TR-151 to send position report by SMS or GPRS or
	SMS+GPRS
Echo	On: Enable TR-151 to send return SMS or command to the phone
number or server to confirm it has received the command	
---	
<b>Off:</b> Disable TR-151 to send return SMS or command to the phone	
number or server to confirm it has received the command	

Step 3: Click **OK** button to send out the setting by network command

## 4.7 Update TR-151's Firmware

You can update TR-151's firmware by the TR Management Center. Step 1: Please make TR-151 enter setting mode by adjusting DIP switch 3 to ON position under power-off status.

Step 2: Please connect TR-151 and PC by the USB cable.

Step 3: Please turn on the power of TR-151.

Step 4: Please run the "TR Management Center" program.

Step 5: Please select	Management $\rightarrow$	Update TR-	151 Firmware
-----------------------	--------------------------	------------	--------------



Step 6: Please click Scan to scan the COM port, and then click OK.

Update TR-151 firmware	Scan COM Port COM Port : 3 Not Find COM Port : 1 Not Find
COM port: 4 Scan Step 2 FirmWare file : Select	COM Port : 2 Find
Update Check firmware Exit	Cancel OK

Step 7: Please click Select and locate the firmware file, once found click Open.

Update TR-151 firms	иате	
COM port : 4		- Scan
Step 2 Firmware file :		Select
Update	Check firmware	Exit

Look in:	Documents		- +	🖻 📸 🎹 🕇	
Name	Date modif	Туре	Size	Tags	
📕 Visual S	tudio 2008				
File <u>n</u> ame:	1			<u>O</u> pen	
File <u>n</u> ame: Files of <u>t</u> ype:	TR151 Firmware	( <sup>*</sup> .bin)		Cancel	

Step 8: Please click Update to update TR-151's firmware.

## 4.8 Using Google Map

Google Map is an online map developed by Google Inc. It offers access to major maps of the world and is constantly updated.

As Google Map is integrated into TR Management center, TR Management center can work under Internet connected status. If you start TR Management center under no Internet connection, a warning window of No Internet connection will appear.

Below please see the introduction of Google Map



#### 4.8.1 Google map data

Google Map includes the basic map, satellite map, hybrid map and other map data. You can switch the map by the buttons on the upper right corner of Google map.



**Basic Map** 



Satellite Map



Hybrid Map

#### 4.8.2 Google map operation

Move the map: You can move the map by right clicking and dragging the map. Or you can move



the map by the tool  $\square \square \square$  on the Google map.

Zoom the map: You can zoom in or zoom out the map by scrolling forward or backward the



mouse. Or you can zoom in or out the map by the tool

# 5. Appendix 1: GPRS Setting

Country	Network	APN	User Name	Password
Albania	Vodafone	Тwa	guest	guest
Argentina	СТІ	internet.ctimovil.com.ar	guest	guest
Argentina	Movistar	internet.gprs.unifon.com.ar internet.unifon	wap	wap
Argentina	Personal	gprs.personal.com	[mobile number]	adgj
Australia	Optus	internet	guest	guest
Australia	Telstra	telstra.internet	guest	guest
Australia	Telstra (data bundles)	telstra.datapack	[blank]	Telstra
Australia	Telstra (pay by time)	telstra.pcpack	[blank]	Telstra
Australia	Three	3netaccess	а	а
Australia	Vodafone	vfinternet.au	guest	guest
Austria	Drei	drei.at	guest	guest
Austria	Max Online	gprsinternet	GPRS	[blank]
Austria	Max Online (Business)	business.gprsinternet	GPRS	[blank]
Austria	Max Online (Metro)	gprsmetro	GPRS	[blank]
Austria	Mobilkom A1	a1.net	ppp@a1plus.at	ррр
Austria	OneNet	web.one.at	web	web
Austria	tele.ring	web	web@telering.at	web
Azerbaijan	Azercell	internet	guest	guest
Bangladesh	Grameen Phone	gpinternet	[blank]	[blank]
Belarus	VELCOM	web.velcom.by unlim.velcom.by	web unlim	web unlim

Belgium	Mobistar (personal)	internet.be	mobistar	mobistar
Belgium	Mobistar (business)	web.pro.be	mobistar	mobistar
Belgium	Orange	orangeinternet	guest	guest
Belgium	Proximus (Internet)	internet.proximus.be	guest	guest
Belgium	Proximus (intranet)	intraprox.be	guest	guest
Botswana	Mascom Wireless	internet.mascom	guest	guest
Brazil	Claro	claro.com.br	claro	claro
Brazil	Oi	gprs.oi.com.br	guest	guest
Brazil	Oi (WAP)	wapgprs.oi.com.br	oiwap	oioioi
Brazil	TIM	tim.br	tim	tim
Brazil	Velox	wap.telcel.com	iesgprs	iesgprs2002
Bulgaria	GloBul	internet.globul.bg	globul	[none]
Bulgaria	M-Tel	mms-gprs.mtel.bg	mtel	mtel
Cameroon	MTN Cameroon	INTERNET	guest	guest
Canada	KORE Wireless	apn.zerogravitywireless.com	[blank]	[blank]
Canada	Microcell (Fido)	internet.fido.ca	fido	fido
Canada	Rogers AT&T	internet.com	wapuser1	wap
Chile	Entel PCS	imovil.entelpcs.cl	entelpcs	entelpcs
Chile	Telefonica Movil	web.tmovil.cl	web	web
China	China Mobile	cmnet	guest	guest
China	China Unicom	[none]	guest	guest
Croatia	T-Mobile	web.htgpr	38591	38591

Croatia	VIPNET START	gprs0.vipnet.hr	38591	38591
Croatia	VIPNET PRO	gprs5.vipnet.hr	38591	38591
Croatia	VIPNET 3G	3g.vip.hr	38591	38591
Colombia	Movistar	internet.movistar.com.co	movistar	movistar
Congo	Vodacom	vodanet	vodalive	[blank]
Costa Rica	IceCelular	icecelular	guest	guest
Czech Republic	Cesky Mobil (contract)	internet	guest	guest
Czech Republic	Cesky Mobil (CM Prepay)	cinternet	guest	guest
Czech Republic	Telefonica (contract)	internet	guest	guest
Czech Republic	Telefonica (Go)	gointernet	guest	guest
Czech Republic	Vodafone (contract)	internet	guest	guest
Czech Republic	Vodafone (pre-pay)	ointernet	guest	guest
Czech Republic	T-Mobile	internet.t-mobile.cz	guest	guest
Denmark	3	[none]	guest	guest
Denmark	Orange	web.orange.dk	guest	guest
Denmark	Sonofon	[none]	guest	guest
Denmark	TDC	internet	guest	guest
Dominican Republic	Orange	orangenet.com.do	guest	guest
Egypt	Click Vodafone	internet.vodafone.net	internet	internet
Egypt	MobiNil	mobinilweb	guest	guest
Estonia	EMT	internet.emt.ee	guest	guest
		•		

Estonia	RLE	internet	guest	guest
Finland	Dna	internet	guest	guest
Finland	Elisa (Radiolinja)	internet	rlnet	internet
Finland	Saunalahti	internet.saunalahti	guest	guest
Finland	Sonera	internet	[blank]	[blank]
Finland	Song	internet.song.fi	song@internet	songnet
France	Bouygues	ebouygtel.com	guest	guest
France	Bouygues (B2Bouygtel)	b2bouygtel.com	guest	guest
France	Orange (contract)	orange.fr	orange	orange
France	Orange MIB	orange-mib	mportail	mib
France	Orange Mobicarte	orange-acte	orange	orange
France	SFR	websfr	guest	guest
Germany	D2 Vodafone	web.vodafone.de	guest	guest
Germany	E-Plus	internet.eplus.de	eplus	gprs
Germany	O2 (3G)	surfo2	guest	guest
Germany	O2 (GPRS)	internet	guest	guest
Germany	Quam	quam.de	quam	quam
Germany	T-Mobile D1	internet.t-mobile	internet.t-d1.de	t-mobile
Ghana	Areeba (formerly Spacefon)	internet.spacefon.com	guest	guest
Greece	Cosmote	internet	guest	guest
Greece	Telestet	gnet.b-online.gr	MSISDN, e.g. 3093XXXXXXX	24680
Greece	TIM	gint.b-online.gr	web	web

Greece	Vodafone	internet.vodafone.gr	guest	guest
Guatemala	Comcel	Wap.tigo.gt	Wap	Wap
Guatemala	PCS Digital	ideasalo	guest	guest
Guyana	GT&T Cellink Plus	wap.cellinkgy.com	test	test
Hong Kong	CSL	hkcsl or internet	guest	guest
Hong Kong	New World	internet	guest	guest
Hong Kong	Orange	web.orangehk.com	guest	guest
Hong Kong	People	internet	guest	guest
Hong Kong	SmarTone	internet	guest	guest
Hong Kong	Sunday	internet	guest	guest
Hong Kong	Three	web-g.three.com.hk	guest	guest
Hungary	Pannon (normal)	net	guest	guest
Hungary	Pannon (flat rate)	netx	guest	guest
Hungary	Pannon (compressed)	snet	guest	guest
Hungary	T-Mobile (subscription)	internet	[supplied]	[supplied]
Hungary	T-Mobile (non-sub.)	internet	wap	Wap
Hungary	T-Mobile (MMS)	mms-westel	mms	[supplied]
Hungary	Vodafone (contract) (compr.)	internet.vodafone.net	guest	guest
Hungary	Vodafone (contract) (un-comp.)	standardnet.vodafone.net	guest	guest

Hungary	Vodafone (pre-pay) (comp.)	vitamax.internet.vodafone.net	guest	guest
Hungary	Vodafone (pre-pay) (un-comp.)	vitamax.snet.vodafone.net	guest	guest
India	AirTel	airtelgprs.com	guest	guest
India	BPL	bplgprs.com	bplmobile	[blank]
India	BSNL	celloneportal	guest	guest
India	Hutch (normal)	www	guest	guest
India	Hutch (Gujarat)	web	guest	guest
India	Idea Cellular	internet	guest	guest
India	MTNL Mumbai	mmsmtnlmum	mtnl	mtnl123
India	MTNL Mumbai (Plan 2)	gprsmtnlmum	mtnl	mtnl123
Indonesia	Excelcomindo	www.xlgprs.net	xlgprs	proxl
Indonesia	IM3	www.indosat-m3.net wap.indosat-m3.net	gprs	im3
Indonesia	Indosat (Matrix)	satelindogprs.com indosatgprs	guest	guest
Indonesia	Telkomsel	internet telkomsel	wap	wap123
Ireland	Meteor	isp.mymeteor.ie	my	meteor
Ireland	O2 (contract)	open.internet	gprs	gprs
Ireland	O2 (pre-pay)	pp.internet	gprs	gprs
Ireland	Vodafone (contract)	isp.vodafone.ie	vodafone	vodafone

	1			
Ireland	Vodafone (pre-pay)	live.vodafone.com	vodafone	vodafone
Israel	Cellcom	internetg	guest	guest
Israel	MTC-Vodafone	apn01	guest	guest
Israel	Orange	orangeinternet	guest	guest
Italy	Blu	INTERNET	guest	guest
Italy	H3G	tre.it	guest	guest
Italy	ТІМ	ibox.tim.it	guest	guest
Italy	Vodafone (Omnitel)	web.omnitel.it	guest	guest
Italy	Wind	internet.wind internet.wind.biz	Wind	Wind
Jamaica	Cable & Wireless	wap	guest	guest
Jamaica	Digicel	web.digiceljamaica.com	wapuser	wap03jam
Japan	Vodafone (J-Phone)	vodafone	ai@vodafone	vodafone
Jersey	(See UK)			
Kazakhstan	Beeline	internet.beeline.kz	internet.beeline	[blank]
Kenya	Safaricom	web.safaricom.com	web	web
Laos	ETL	etlnet	guest	guest
Latvia	LMT	internet.lmt.lv	[blank]	[blank]
Latvia	Tele2	internet.tele2.lv	gprs	internet
Lebannon	Cellis FTML	internet.ftml.com.lb	plugged	plugged
Lebannon	MTC Touch	gprs.mtctouch.com.lb	guest	guest
Lithuania	Bite GSM	banga	guest	guest
Lithuania	Omnitel (contract)	gprs.omnitel.net	guest	guest
Lithuania	Omnitel	gprs.startas.lt	omni	omni

	(no contract)			
Luxembourg	LUXGSM	web.pt.lu	guest	guest
Luxembourg	Tango	internet	tango	tango
Luxembourg	VOXmobile	vox.lu	guest	guest
Масаи	СТМ	ctm-mobile	guest	guest
Macau	Macau Hutchison Telecom (Internet)	web.hutchisonmacau.com	hutchison	1234
Macau	Macau Hutchison Telecom (MMS)	mms.hutchisonmacau.com	hutchison	1234
Malaysia	DIGI	diginet	guest	guest
Malaysia	Celcom	celcom.net.my	guest	guest
Malaysia	Maxis 2G (contract)	internet.gprs.maxis	guest	guest
Malaysia	Maxis 3G (contract)	unet	maxis	wap
Malaysia	Maxis (pre-pay)	net	maxis	net
Malaysia	Timecel	timenett.com.my (timenet.com.my?)	guest	guest
Malaysia	TM Touch	internet	guest	guest
Malta	Go Mobile (contract)	gosurfing	guest	guest
Malta	Go Mobile (pre-pay)	rtgsurfing	guest	guest
Mexico	Telcel	internet.itelcel.com	webgprs	webgprs2002
Moldavia	Moldcell	internet	gprs	gprs
Могоссо	Maroc Telecom	iam	wac	1987
Могоссо	Medi Telecom	wap.meditel.ma	MEDIWAP	MEDIWAP
Netherlands	KPN Mobile	internet	KPN	gprs

Netherlands	02	internet	guest	guest
Netherlands	T-Mobile (Ben) active	internet	guest	guest
Netherlands	Telfort	internet	telfortnl	password
Netherlands	Vodafone (normal)	web.vodafone.nl	vodafone	vodafone
Netherlands	Vodafone (business)	office.vodafone.nl	vodafone	vodafone
New Zealand	Vodafone (unrestricted)	internet	guest	guest
New Zealand	Vodafone (restricted)	www.vodafone.net.nz	guest	guest
Nicaragua	Alo Pcs	internet.ideasalo.ni	internet	internet
Nigeria	Globacom (Internet)	gprs	wap	[blank]
Nigeria	Globacom (WAP)	glowap	wap	wap
Nigeria	MTN Nigeria	web.gprs.mtnnigeria.net	wap	gprs
Nigeria	Vmobile	wap.vmobile	wap	wap
Norway	Netcom	internet.netcom.no	netcom	netcom
Norway	TalkMore	(same as Netcom)		
Norway	Telenor Mobil (Vodafone)	Internet internet.vodafone.net	guest	guest
Pakistan	UFone	ufone.internet	ufone	ufone
Panama	Cable & Wireless	apn01.cwpanama.com.pa	ххх	ххх
Paraguy	СТІ	internet.ctimovil.com.py	ctigprs	ctigprs999
Peru	Claro (TIM)	tim.pe	tim	tulibertad
Philippines	Globe Telecoms (Web)	internet.globe.com.ph	globe	globe
				·

Philippines	Globe Telecoms (WAP)	www.globe.com.ph	globe	globe
Philippines	Smart	internet	witsductoor	banonoy
Philippines	Sun Cellular	minternet	guest	guest
Poland	ERA	erainternet	erainternet	erainternet
Poland	Heyah	heyah.pl	heyah	heyah
Poland	Orange	internet	internet	internet
Poland	Polkomtel	www.plusgsm.pl	guest	guest
Portugal	Optimus	internet	guest	guest
Portugal	TMN	internet	guest	guest
Portugal	Vodafone (Telecel)	internet.vodafone.pt	guest	guest
Russia	BeeLine	internet.beeline.ru	beeline	beeline
Romania	Connex (Vodafone)	internet.connex.ro	internet.connex.ro	connex
Romania	Orange	internet	guest	guest
Russia	Megafon (dv)	internet.dv	guest	guest
Russia	Megafon (kvk)	internet.kvk	guest	guest
Russia	Megafon (Itmsk)	internet.ltmsk	guest	guest
Russia	Megafon (Moscow)	internet.msk	gdata	gdata
Russia	Megafon (mc)	internet.mc	guest	guest
Russia	Megafon (NWGSM)	internet.nw	guest	guest
Russia	Megafon (Siberia)	internet.sib	guest	guest

Russia	Megafon (UGSM)	internet.ugsm	guest	guest
Russia	Megafon (usi)	internet.usi.ru	guest	guest
Russia	Megafon (Volga)	internet.volga	guest	guest
Russia	Motiv (uses BeeLine)	internet.beeline.ru	beeline	beeline
Russia	MTS	internet.mts.ru internet.kuban	mts	mts
Russia	NCC	internet	ncc	[supplied]
Russia	NTC	internet.ntc	guest	guest
Russia	PrimTel	internet.primtel.ru	guest	guest
Saint Lucia	Cable & Wireless	internet	guest	guest
Saint Vincent & the Grenadines	Digicel	wap.digiceloecs.com	wapoecs	wap03oecs
Saudi Arabia	STC	jawalnet.com.sa	guest	guest
SÈnÈgal	Tigo	wap.sentelgsm.com	guest	guest
Serbia- Montenegro	Mobtel Srbija	internet	mobtel	gprs
Serbia- Montenegro	Telekom Srbija	gprsinternet	mts	064
Serbia- Montenegro	Telekom Srbija (MMS service)	mms	mts	064
Serbia- Montenegro	Telekom Srbija (WAP service)	gprswap	mts	064
Singapore	M1	mobilenet	guest	guest
Singapore	SingTel	internet	guest	guest
Singapore	Starhub	shwapint	guest	guest
Slovakia	Eurotel	internet	guest	guest

Slovakia	Globtel	internet	guest	guest
Slovakia	Orange	internet	jusernejm	pasvord
Slovenia	Mobitel (Internet)	internet	mobitel	internet
Slovenia	Mobitel (Internet Pro)	internetpro	mobitel	internet
Slovenia	Simobil	[none]	guest	guest
South Africa	Cell-C	internet	guest	guest
South Africa	MTN	internet	guest	guest
South Africa	Vodacom	internet	guest	guest
South Africa	Virgin Mobile	vdata	guest	guest
Spain	Amena	internet	CLIENTE	AMENA
Spain	Telefonica (Movistar)	movistar.es	movistar	movistar
Sri Lanka	Dialog GSM (contract)	www.dialogsl.com	guest	guest
Sri Lanka	Dialog GSM (pre-pay)	ррмар	guest	guest
Sri Lanka	Mobitel	isp	guest	guest
Spain	Vodafone (Airtel)	airtelnet.es	vodafone	vodafone
Sweden	Tele2, Comviq	isplnk1.swip.net	gprs	internet
Sweden	Tele2 (3G)	internet.tele2.se	wap	wap
Sweden	Telenor (GPRS)	internet.vodafone.net	guest	guest
Sweden	Telenor (3G)	services.vodafone.net	guest	guest
Sweden	Telia	online.telia.se	guest	guest
Sweden	Tre (3G)	data.tre.se	void	void

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Ukraine	Jeans	www.jeans.ua	guest	guest
Ukraine	Kyivstar	www.kyivstar.net	igprs	internet
Ukraine	Mobi-GSM	internet.urs	guest	guest
Ukraine	UMC	www.umc.ua	guest	guest
Uruguay	ANCEL	gprs.ancel	guest	guest
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## 6. Appendix 2: Setting Free Web Service

Free web service is provided on <u>http://traq.gstraq.com/login.php</u> by Globalsat Corporation Before using the service, please adjust TR-151 by the tool in the product CD Please insert the product CD in the CD ROM of PC.

You will see the window below.



#### Please click the "Set Free Web Service"

The window for setting free web service will be brought like the window below.

晶 Conf	igTool-User ¥1.0	
	Device modal :	
	Set Cancel	
Status:	Find serial port	

Please make TR-151 enter setting mode by adjusting DIP switch 3 to the position of ON. Please connect TR-151 to PC by USB cable.

Please turn on the power of TR-151.

Please click **Set** button when the program finds the COM port of TR-151 like the screenshot below.

🔒 ConfigTool-User ¥1.0		
Device modal : TR151(COM5)		
Set Cancel		
Status: Connected to device,Please press "Set"		