ESTABLISH COMMUNICATIONS :-

It is important that you can successfully communicate with the TRACKER DEVICE. During the setup procedure you will be sending the TRACKER DEVICE an SMS command and the TRACKER DEVICE will respond to you with a reply SMS. Note :-

* * Any phone numbers can send SMS commands to the TRACKER DEVICE as default.
* * The SMS command format is not case sensitive.
* * Parameters are separated by a comma.
* * Each SMS command is terminated by a cross hatch (#).
* * There is a reply SMS after sending the SMS command.
* * If the SMS command is set successfully, there is an "OK" reply SMS.
* * The TRACKER DEVICE will reply with the corresponding information after you send the SMS command.
* * Do not insert any spaces in your SMS command.
* * Be aware that smart phones insert spaces automatically and it is not all that obvious. If this is the case with your phone remove the spaces before sending the SMS command.

Send:	**PARAM#**
Receive:	Lots of data about the TRACKER DEVICES setup.
	This means you can communicate with the TRACKER DEVICE and complete the setup!

SET THE SOS NUMBER

There can be 1 to 3 SOS numbers. They are the numbers that the TRACKER DEVICE sends SMS's to and calls when there is an alarm condition. It is also the number that will be answered if you make a voice call for 'VOICE MONITORING'.

Send:	**SOS,A,phone number1,phone number2,phone number3#**
	eg. SOS,A,0409123456# (For one number only)
	eg. SOS,A,0409123456,0409123457# (For two numbers)
	eg. SOS,A,0409123456,0409123457,0409123458# (For three numbers)
Receive:	If set successfully, there is an "SOS Number setting OK" reply message.

Alarm conditions can be :-

* 'SOS Alarm!' SMS sent and PHONE CALL made when SOS button pressed 3 seconds or 'A','U','AH' & 'UH' Series alarm triggered (DEFAULT ON).
* 'Cut off Power Alarm!' SMS sent when 12/24 Volt supply is removed from TRACKER DEVICE (DEFAULT 'ON').
* 'Low Battery Alarm' SMS sent when TRACKER DEVICES internal battery becomes low (DEFAULT 'ON').
* 'Over Speed Alarm' SMS sent when a preset vehicle speed is exceeded (PROGRAMABLE).
* 'Moving Alarm' SMS sent when vehicle moves a preset distance (PROGRAMABLE).
* 'Geofence Alarm' SMS sent when vehicle has moved in and/or out of a preset FENCE (PROGRAMABLE).

SET THE CENTER NUMBER (ONLY REQUIRED FOR REMOTE ARMING/LOCKING/IMMOBILISE)

There is only one CENTER number **(WARNING MUST BE IN INTERNATIONAL FORMAT WITHOUT THE "+")** and it is the number that the TRACKER DEVICE will respond to when you want to immobilise the vehicle.
Only SOS numbers in INTERNATIONAL FORMAT can set the CENTER number also in INTERNATIONAL FORMAT so the SOS number must first be reset in INTERNATIONAL FORMAT WITHOUT THE "+" and then changed back to LOCAL FORMAT (as above) after the CENTER number has been set.

Send:	**SOS,A,phone number#**
	eg. SOS,A,61409123456# INTERNATIONAL FORMAT
Receive:	If set successfully, there is an "SOS Number setting OK" reply message.
Send:	**CENTER,A,phone number#**
	eg. CENTER,A,61409123456# INTERNATIONAL FORMAT
Receive:	If set successfully, there is an "Center Number setting OK" reply message.
Send:	**SOS,A,phone number#**
	eg. SOS,A,0409123456# LOCAL FORMAT
Receive:	If set successfully, there is an "SOS Number setting OK" reply message.

CONFIRM THE TRACKER DEVICE TIME ZONE IS SET (IF NOT ALREADY BY AnTRAK)

This can be checked with the PARAM# command (see BASIC SMS REQUESTS & COMMANDS page 4).

Send:	**GMT,E/W,hours,minutes#**
	eg. GMT,E,10# (For Sydney AEST) (GMT + 10 Hours)
Receive:	If set successfully, there is an "Timezone setting OK" reply message.

ALARM ALERTS :-

"SOS ALARM" (SMS SENT AND PHONE CALL MADE [GPRS FUNCTION MUST BE 'ON' FOR PHONE CALL] TO EACH PRESET SOS NUMBER WHEN EITHER THE SOS BUTTON IS PRESSED FOR 3 SECONDS OR THE 'A','U','AH' & 'UH' SERIES ALARM IS TRIGGERED FOR 3 SECONDS) (DEFAULT ON)

Receive SMS: SOS Alarm!
Date and Time
Link for Google maps. (Use this link on smart phones to see the vehicle's position on Google maps)

Receive CALL: TRACKING DEVICE will then dial the preset SOS numbers (GPRS FUNCTION MUST BE 'ON') in circles until the PHONE CALL is picked up so as to allow monitoring of sound (SOS PHONE CALL FUNCTION) in the vehicle.

"CUT OFF POWER ALARM" (SMS SENT TO EACH PRESET SOS NUMBER WHEN THE POWER IS REMOVED TO THE TRACKER DEVICE) (DEFAULT ON)

Receive SMS: Cut off Power Alarm!
Date and Time
Link for Google maps. (Use this link on smart phones to see the vehicle's position on Google maps)

"LOW BATTERY ALARM" (SMS SENT TO EACH PRESET SOS NUMBER WHEN THE BATTERY IN THE TRACKER DEVICE IS LOW ON CHARGE) (DEFAULT ON)

Receive SMS: Attention! The built-in battery is low, please charge!

"MOVING ALARM" (SMS SENT TO EACH PRESET SOS NUMBER WHEN THE VEHICLE IS MOVED A PRESET DISTANCE) (DEFAULT OFF)

Receive SMS: Attention! The vehicle is moved.
Date and Time
Link for Google maps. (Use this link on smart phones to see the vehicle's position on Google maps)

"GEOFENCE ALARM" (SENT EACH PRESET SOS NUMBER WHEN THE VEHICLE IS MOVED IN OR OUT OF A PRESET FENCE) (DEFAULT OFF)

Receive SMS: In/Out The Fence Alarm!
Date and Time
Link for Google maps. (Use this link on smart phones to see the vehicle's position on Google maps)

"OVER SPEED ALARM" (SMS SENT TO EACH PRESET SOS NUMBER WHEN THE VEHICLE EXCEEDS A PRESET SPEED) (DEFAULT OFF)

Receive SMS: Speeding! The speed of X KM/H, please slow down, drive safely!

BASIC SMS REQUESTS & COMMANDS :-

CHECK ON THE PARAMETERS (SETTINGS) OF THE TRACKER DEVICE

Send: **PARAM#**

Receive: Lots of data about the TRACKER DEVICE'S setup such as…
IMEI Number.
SOS Number.
Center Number.
Time Zone.

FIND THE VEHICLE'S LOCATION WITH A GOOGLE LINK

Send: **URL#**

Receive: Date and Time
Link for Google maps. (Use this link on smart phones to see the TRACKER DEVICE'S position on Google maps).

FIND THE VEHICLE'S LOCATION WITH LATITUDE/LONGITUDE COORDINATES

Send: **WHERE#**

Receive: Last position!
Latitude/Longitude Course Speed Date Time.

REQUEST THE TRACKER DEVICE'S STATUS

Send: **STATUS#**

Receive: Current TRACKER DEVICE'S Status such as…
Standby Battery Voltage
GPRS Link Online or Offline **(IF BOTH ONLINE/ONPHONE LIVE TRACKING AND SOS PHONE CALL FUNCTIONS ARE NOT REQUIRED DISABLE GPRS FUNCTION TO AVOID UNWANTED DATA CHARGES.) (See "ONLINE/ONPHONE LIVE TRACKING" on page 8 to DISABLE if necessary)**
3G Signal Level
Ignition/Accessories On or Off
GPS Signal Level

IMMOBILISE VEHICLE'S STARTER MOTOR, ACTIVATE ALARM & LOCK VEHICLE
WARNING :- IT MAY BE ILLEGAL IN SOME AREAS TO REMOTELY IMMOBILISE A MOVING VEHICLE SO FOR THIS & SAFETY REASONS WE RECOMMEND CUTTING THE STARTER CIRCUIT

Send: **RELAY,1#**

Receive: Cut off the fuel supply Success! (Vehicle is Immobilised, Alarm Activated & Vehicle Locked)
Speed (This function will be delayed, if vehicle is travelling above 20km per hour or the GPS does not have a fix, and the reply will state the reason)

RESTORE VEHICLE'S STARTER MOTOR, DEACTIVATE ALARM & UNLOCK VEHICLE

Send: **RELAY,0#**

Receive: Restore fuel supply success! (Vehicle Immobilisation Point is restored, Alarm Deactivated & Vehicle Unlocked)

REQUEST TRACKER DEVICE'S RELAY STATUS

Send: **RELAY#**

Receive: Fuel Supply Status: Cut off or Connected

RESTORE TRACKER DEVICE TO DEFAULT SETTINGS   (To be used to set TRACKER DEVICE back to factory default settings) *(WARNING :- ALL SETTINGS WILL BE LOST INCLUDING ANTRAK)*.

Send: **FACTORY#**

Receive: Restore to default successfully, now will restart to make effective.

WARNING :- GPRS IS ENABLED AS DEFAULT AND, IF BOTH ONLINE/ONPHONE LIVE TRACKING AND SOS PHONE CALL FUNCTIONS ARE NOT REQUIRED, SHOULD BE DISABLED AGAIN TO AVOID UNWANTED DATA CHARGES (see "ONLINE/ONPHONE LIVE TRACKING" on page 8).

ADVANCED SMS PROGRAMMING & SETTING OF PARAMETERS :-

CHECKING OF PARAMETERS OF "SOS ALARM"

Send SMS: **SOSALM#**

Receive SMS: Current TRACKER DEVICE'S Status such as…
SOS Alarm ON/OFF DEFAULT "ON"
Method of Alarming 1-SMS only/2 SMS & PHONE CALL DEFAULT "2"

DEACTIVATING OF "SOS ALARM"

Send SMS: **SOSALM,OFF#**

Receive SMS: OK!

ACTIVATING OF "SOS ALARM"

Send SMS: **SOSALM,[A],[M]#**
SOS Alarm A=ON/OFF DEFAULT "ON"
Method of Alarming M=1/2 1-SMS only/2 SMS & PHONE CALL DEFAULT "2"

Receive SMS: OK!

CHECKING OF PARAMETERS OF "CUT OFF POWER ALARM"

Send SMS: **POWERALM#**

Receive SMS: Current TRACKER DEVICE'S Status such as…
Cut Off Power Alarm ON/OFF DEFAULT "ON"
Method of Alarming 1-SMS only/2 SMS & PHONE CALL DEFAULT "1"
Loss of Power Time 2-60 seconds DEFAULT "5"
Delay between Alarms 1-3600 seconds DEFAULT "300"

DEACTIVATING OF "CUT OFF POWER ALARM"

Send SMS: **POWERALM,OFF#**

Receive SMS: OK!

ACTIVATING OF "CUT OFF POWER ALARM"

Send SMS: **POWERALM,[A],[M],[T1],[T2]#**
Cut Off Power Alarm A=ON/OFF DEFAULT "ON"
Method of Alarming M=1/2 1-SMS only/2 SMS & PHONE CALL DEFAULT "1"
Loss of Power Time T1=2-60 seconds DEFAULT "5"
Delay between Alarms T2=1-3600 seconds DEFAULT "300

Receive SMS: OK!

CHECKING OF PARAMETERS OF "LOW BATTERY ALARM"

Send SMS: **BATALM#**

Receive SMS: Current TRACKER DEVICE'S Status such as…
Low Battery Alarm ON/OFF DEFAULT "ON"
Method of Alarming 1-SMS only/2 SMS & PHONE CALL DEFAULT "1"

DEACTIVATING OF "LOW BATTERY ALARM"

Send SMS: **BATALM,OFF#**

Receive SMS: OK!

ACTIVATING OF "LOW BATTERY ALARM"

Send SMS: **BATALM,[A],[M]#**
Low Battery Alarm A=ON/OFF DEFAULT "ON"
Method of Alarming M=1/2 1-SMS only/2 SMS & PHONE CALL DEFAULT "1"

Receive SMS: OK!

CHECKING OF PARAMETERS OF "MOVING ALARM"

Send SMS: **MOVING#**

Receive SMS: Current TRACKER DEVICE'S Status such as…
Moving Switch ON/OFF DEFAULT "OFF"
Latitude/Longitude
Preset Radius 100-300 metres DEFAULT "300"
Method of Alarming 1-SMS only/2 SMS & PHONE CALL DEFAULT "1"

DEACTIVATING OF "MOVING ALARM"

Send SMS: **MOVING,OFF#**

Receive SMS: OK! Moving Switch:OFF.

ACTIVATING OF "MOVING ALARM"

Send SMS: **MOVING,[A],[R],[M]#**
Moving Alarm A=ON/OFF DEFAULT "OFF"
Preset Radius R=100-300 metres DEFAULT "300"
Method of Alarming M=1/2 1-SMS only/2 SMS & PHONE CALL DEFAULT "1"

Receive SMS: OK! Moving
Switch:ON;
Preset Radius:300m;
Alarm type:1

CHECKING OF PARAMETERS OF "GEOFENCE ALARM"

Send SMS: **FENCE#**

Receive SMS: Current TRACKER DEVICE'S Status such as…
                            Type of Fence Circle or Rectangle
                            Fence ON/OFF DEFAULT "OFF"
                            Latitude/Longitude
                            Preset Radius 1=100 metres 10=1000 metres 100=10000 metres DEFAULT "1"
                            Type of Alarm IN/OUT or " "=Both DEFAULT " "
                            Method of Alarming 1-SMS only DEFAULT "1"

DEACTIVATING OF "GEOFENCE ALARM"

Send SMS: **FENCE,OFF#**

Receive SMS: OK! FenceType,ON/OFF,Latitude,Longitude,PresetRadius,In/Out,Alarmtype

ACTIVATING OF "GEOFENCE CIRCULAR ALARM"

Send SMS: **FENCE,[B],0,0,0,[F],[X],[M]#**
                            Fence Alarm B=ON/OFF DEFAULT "OFF"
                            Preset Radius F=1-100 1=100 metres 10=1000 metres 100=10000 metres DEFAULT "1"
                            Type of Alarm X=IN/OUT or IN & OUT=,, DEFAULT " "
                            Method of Alarming M=1 1-SMS only DEFAULT "1"

Receive SMS: OK! Automatically obtain Latitude/Longitude Date Time

CHECKING OF PARAMETERS OF "OVER SPEED ALARM"

Send SMS: **SPEED#**

Receive SMS: Current TRACKER DEVICE'S Status such as…
                            Speed: ON/OFF DEFAULT "OFF"
                            Preset Time Interval 5-600 seconds DEFAULT "20"
                            Preset Speed Limit 1-255 KM/H DEFAULT "100"
                            Method of Alarming 1-SMS only DEFAULT "1"

DEACTIVATING OF "OVER SPEED ALARM"

Send SMS: **SPEED,OFF#**

Receive SMS: OK!

ACTIVATING OF "OVER SPEED ALARM"

Send SMS: **SPEED,[A],[B],[C],[M]#**
                            Speed Alarm A=ON/OFF DEFAULT "OFF"
                            Preset Time Interval B=5-600 seconds DEFAULT "20"
                            Preset Speed Limit C=1-255 KM/H DEFAULT "100"
                            Method of Alarming M=1 1-SMS only DEFAULT "1"

Receive SMS: OK!

ONLINE/ONPHONE LIVE TRACKING :-

The TRACKING DEVICE can also be configured for ONLINE/ONPHONE LIVE TRACKING viewable on a PC/Mobile etc.

SET THE TRACKER DEVICE APN (ACCESS POINT NAME) (IF NOT ALREADY BY AnTRAK) Can be checked with GPRSSET# command mentioned below

> Send SMS: **APN,APNs.NAME#**
> **eg. APN,Telstra.wap#** (for ALDImobile [DEFAULT])
>
> Receive SMS: OK!

SET THE LIVE TRACKING APPLICATIONS IP ADDRESS & PORT NUMBER (ACCESS POINT NAME) (IF NOT ALREADY BY AnTRAK) Can be checked with GPRSSET# command mentioned below

> Send SMS: **SERVER,0,IPADDRESS,PORT,0#**
> **eg. SERVER,0,193.193.165.165,21143,0#** (for AnTRAK/WIALON [DEFAULT])
>
> Receive SMS: OK!

"GPRS FUNCTION" IS ENABLED AS DEFAULT AND IS REQUIRED FOR 'ONLINE/ONPHONE LIVE TRACKING' AND/OR 'SOS PHONE CALL' FUNCTIONS
> *WARNING :- "GPRS FUNCTION" WILL INCUR DATA CHARGES ON YOUR SIM CARD*

> Send SMS: **GPRSON,1#**
>
> Receive SMS: GPRSON

DEACTIVATING OF "GPRS FUNCTION"

> Send SMS: **GPRSON,0#**
>
> Receive SMS: GPRSOFF

CHECKING OF PARAMETERS OF "GPRS FUNCTION"

> Send SMS: **GPRSSET#**
>
> Receive SMS: Current TRACKER DEVICE'S Status such as…
> GPRS: ON/OFF DEFAULT "ON"
> APN: APN'sName,0
> SERVER: 0,IPAddress,Port,0
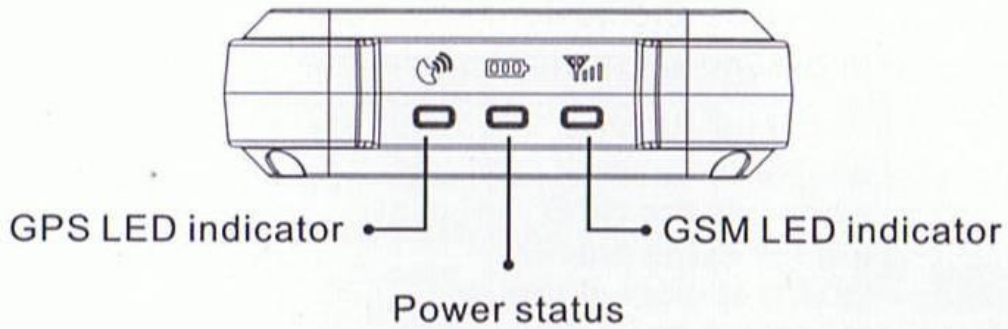> AGPS: AGPS Server
> URL: Map Server

REGISTER THE TRACKER DEVICE WITH YOUR LIVE TRACKING PROVIDER (USUALLY REGISTERED FOR AnTRAK/WIALON ONLINE/ONPHONE LIVE TRACKING BY AnTRAK)

> Details required usually include :-
>
> Mobile Phone Number of the TRACKER DEVICE SIM CARD
>
> IMEI Number of the TRACKER DEVICE
> The IMEI Number of the TRACKER DEVICE can be found using the PARAM# command (see BASIC SMS REQUESTS & COMMANDS page 4).

GPS LED indicator   GSM LED indicator

Power status

GPS LED Indicator - Blue		
● - ○	0.1s ON & 0.1s OFF	Searching GPS signal
●	Steady on	GPS is fixed
○	OFF	No GPS fixed or initializing

GSM LED Indicator - Green		
● - ○	0.1s ON & 0.1s OFF	GSM initializing
● - ○○	0.1s ON & 1.9s OFF	Receive GSM signal normally
●	Steady on	Connected to GPRS network
○	OFF	No GSM signal

Power Status - Red		
● - ○	0.1s ON & 0.1s OFF	Low battery
●● - ○○	2s ON & 2s OFF	Full charged
● - ○○	0.1s ON & 1.9s OFF	Normal operating
●	Steady on	Device is charging
○	OFF	Low battery/Power off

● - ● - ●	Flash in a loop	Device is in defense status

Dear Customer,

Congratulations on the installation of your **VEHICLE TRACKER** and please find **WEBSITE link** to **AnTRAK** utilising the **WIALON LIVE TRACKING** platform which is now available for both self tracking and fleet management applications :-

http://hosting.wialon.com/

To access this free **WEBSITE** for demonstration purposes please use :-

USERNAME	**AnTRAK**
PASSWORD	**1234**

The demo shows one vehicle but more (including boats/machinery etc.) can be added in the case of a fleet etc. with live tracking and history available.

This USERNAME and PASSWORD can also be used to access **AnTRAK** on your **MOBILE PHONE** after downloading the free **WIALON app** from the App Store (Iphone) or Google Play (Android).

After your tracker has been installed the information required to put your vehicle online is :-

COMPANY NAME OF VEHICLE TRACKER SUPPLIER (name of installer/company who sold tracker to you)																			
MOBILE PHONE NUMBER OF TRACKER SIM CARD (from ALDI)																			
IMEI NUMBER OF TRACKER (if known)																			
YOUR MOBILE PHONE NUMBER (usually the number the tracker contacts)																			
YOUR USER NAME (usually vehicle owner/driver name)																			
YOUR PASSWORD (something that you will remember min. 4 digits)																			
YOUR UNIT NAME (name by which vehicle is to be referred to)																			
YOUR EMAIL ADDRESS (Correspondence/billing etc.) Use 2nd line if needed																			

The cost of using the **AnTRAK/WIALON** platform for **live tracking** of your vehicle is **$176.00 inc.gst** per vehicle per year (under **50 cents** per day).

Should you wish to proceed please provide the above information by email to **antitheft@bigpond.com** and we will contact you to arrange payment.

Regards
The AnTRAK LIVE TRACKING team

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