WIKEY

Tracker 3.0

Documentation

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Brief Introduction

Tracker 3.0 is a Universal GPS tracking Device using 2G Cellular Network for communication & is mainly designed for Vehicle Tracking. It can detect the SIM card and automatically adjust the APN settings for all the cellular networks available in Pakistan, for other remaining SIM cards APN Setting can be done manually by Commands. It requires MICRO SIM card.

It consists of;

1. GPS (for Global Positioning)
2. GSM/GPRS Quad-Band (GSM850MHz, EGSM900MHz, DCS1800MHz and PCS1900MHz)
3. Aux Port (for External Microphone)
4. 280 mAh Backup Battery

Features that device offers:

1. 2-Admin Numbers
2. Fuel Cut
3. Door Lock/Unlock
4. Ignition Alert
5. Car Tampering Alert
6. Geo-Fencing
7. Over speeding Alerts
8. Backup Battery

Remote Configuration of Device By SMS:

Remote Configuration can be done by sending the SMS to the device. And before remote configuration please do the first two bullets steps.

- Insert the SIM Card in the Device.
- Press the mentioned "*Reset Button*" on the Device for at least 2-3 seconds and wait for 10-15 seconds or till the red blinking led starts blinking after every 3 seconds.

- Set Primary Number in Device:

    Firstly, primary number needs to be added to the device before further changes can be made;

    SMS Structure: "<deviceimei>pri<number_with_country_code>ab"
        e.g: 868000000000000pri+923000000000ab
    wait for Response SMS
    Response SMS: Primary Number Saved

- Set IP/URL & Port of Device:

    Command Structure to set the IP/Url and port;

    SMS Structure: "Akf<your_IP/URL:Port>"
        e.g: Akfhttp://demo.traccar.org:5055/
    wait for Response SMS
    Response SMS: Url Saved

- Enable Live Tracking:

    Command needs to send after setting the IP/URL and Port to enable device sending data to Server. By Default, the data send interval in **7seconds** when the device is reading *HIGH* on its *Ignition Pin* (i.e. the car is ON) & interval is **30mins** when the *Ignition pin* is *LOW* (i.e. Car is OFF)

    SMS Command: "live"

    Wait for Response SMS
    Response SMS: Live Tracking Enabled

    NOTE: If setting needs to be Done without Setting Primary Number

            Command : <Device_IMEI> + <SMS Structure/SMS Command>
            e.g: 868000000000000live

Other Commands:

More Commands to set Addional functionanily of the device.

- Set Secondary Number:

    Secondary number can be added to device by;

    SMS Structure: "<deviceimei>sec<number_with_country_code>ab"
        e.g: 868000000000000pri+923000000000ab
    wait for Response SMS

- Fuel Cut:

    To cut the fuel Supply of the car;
    SMS Command: "fc"

    wait for Response SMS
    Response SMS: Theft Stop Activated

- Fuel Turn ON:

    To restore the fuel Supply of the car;
    SMS Command: "fon"

    wait for Response SMS
    Response SMS: Fuel Turned ON

- Lock Doors:

    To lock all the car doors;
    SMS Command: "Llc"

    wait for Response SMS
    Response SMS: Doors Locked

- Unlock Doors:

    To unlock all the car doors;
    SMS Command: "Ulk"

    wait for Response SMS
    Response SMS: All Doors Unlocked

- Set Geo-Fence and Speed Limit:

    To Set the geo-fence and speed limit of the tracker. Geo-fence will be only circular;

SMS Structure						
SMS Structure	geo	<latitude> (9 Chars)	<longitude> (9 Chars)	<radius> (Km)	sp	<speedlimit> (3 Chars) (Km/hr)
Sample	geo	33.000000	72.000000	10000	sp	000

    e.g: "geo33.00000072.00000010000sp000"
    wait for Response SMS
    Response SMS: Speed and Fence. DONE

- Get SMS Based Location:

    SMS Based Location means that SMS command is sent to tracker and in response tracker will send location in SMS.

    SMS Command: "track"

    wait for Response SMS
    Response SMS: http://maps.google.com/maps?q=loc:33.123456+72.123456
                            Ages:123
                            Speed:123
    (Ages: How old the location data is in secs and speed is in Km/hr).

- **Get IMEI:**
  To get the Device IMEI

  SMS Command: "IMEI"

  wait for Response SMS
  Response SMS: 868000000000000   (15-digit Device IMEI)

- **Disable Live Tracking:**
  To Disable Live Tracking

  SMS Command: "untra"

  Wait for Response SMS
  Response SMS: Live Tracking Disabled

SMS Alerts:

SMS Alerts that are directly send to numbers by the tracking device. These alerts are separate the web-based Alerts. Alerts and Response SMS will be received on **Primary Number.** Only Important alerts will be received on Secondary Number as well.

- **Ignition Alert:**

The Alert is received when the car engine will turn ON/OFF. By default, this alert will be only sent when live tracking is disabled. Only to **Primary Number**.

Alert SMS: "vehicle ON"   (when vehicle is turned ON)
                      "vehicle OFF"   (when vehicle is turned OFF)

- **Vehicle Tampering Alert:**

When power is disconnected from the tracker. Both **Primary and Secondary Numbers.**

Alert SMS: "Vehicle Tampering Alert"

- **Geo-Fencing Alert:**

When Vehicle leaves or enters the Geo-Fence. Both **Primary and Secondary Numbers**.

Alert SMS: "Outside the Fence"
                      "Inside the Fence"

- **Over-Speeding Alert:**

When Vehicle Exceeds the Set Speed Limit (Default Speed Limit is 130 Km/hr). By default, this alert will also be sent when live tracking is disabled. This alerts is sent to **Primary Number Only**.

Alert SMS: "Over-Speeding Alert **<Speed>** KMPH"

Structure of Data Over Http Post:

This tracker supports OSMAND Protocol of Traccar Open Source GPS Tracking Software.

Url	http://demo.traccar.org:5055/
Body	Id=1112244&lat=41.123456&lon=0.123456&altitude=350&speed=1.0&batt=10&ignition=0&alarm=powerCut&
Content Type	Text
Timeout	30 secs