# GPS Data Transfer Plugin How To

## Prepare Configuration File

Create a file named “libgpstran\_client.ini” as following

[Settings]

Enabled=1

Server=127.0.0.1

Port=3081

CacheSize=2000

**Parameter description**

**Enabled** : Transfer gps data or not , 1 enabled, 0 disable;

**Server** :Target server address, IP or domain name .

**Port** : The port that server listens on.

**CacheSize** : The maximum number of GPS message should be cached on plugin , this number should not less than 1/3 of online device number.

If one or more parameters are changed, please restart Gateway Server service.

## Installation

1 . Stop Gateway Server by using Server Manager

2. Copy “libgpstran\_client.ini” and “libgpstran\_client.dll” to the {server installation directory}\bin

3 .Restart Gateway Server

## GPS Data Format

Device ID, DateTime, Longitude, Latitude, Speed, Heading, Altitude, Satellite, Report ID, Mileage, Status, Analog port 1 (input 1), Analog port (input 2),RFID#

Description

**Device ID**: The ID of the device. (length is 10 to 16 digits)

**DateTime**: YYYYMMDDhhmmss (GMT)

**Longitude**: WGS-84 coordinate system

**Latitude**: WGS-84 coordinate system

**Speed**: 0~65535 km/h

**Heading**: 0~360 degrees

**Altitude**: Parameter column Reserved (currently showing ‘0’)

**Satellite** : -1 , this number is not available

**Report ID**: xxx. Different report ID indicates different meaning of each returning message, *(For Tracking Set Report ID to 2)*

**Mileage**: the mileage value in kilometer

**Status :** An integer number for device status , detail information please see Device Status section .

**(Analog 1)**: Reserved for future use. Currently, the parameter will leave as blink.

**(Analog 2)**: Reserved for future use. Currently, the parameter will leave as blink.

**RFID :** 0 for currently

**#** : End flag between messages;

## Device Status

Status in message an integer number , there are 32 bits for device status , bit values depends on the outer device attached.

|  |  |  |
| --- | --- | --- |
| **Bit** | **Description** | **Value** |
| 0 | GPS | 0 invalid , 1 valid |
| 1 | Acc | 0 off, 1 on |
| 2 | turn left | 0 invalid , 1 turn left |
| 3 | turn right | 0 invalid , 1 turn right |
| 4 | brake | 0 invalid , 1 brake |
| 5 | forward | 0 invalid , 1 forward |
| 6 | backward | 0 invalid , 1 backward |
| 7 | GPS Antenna | 0 dose not exist , 1 exists |
| 8 | HDD1 | 0 dose not exist, 1 exists |
| 9 | HDD2 | 0 dose not exist, 1 exists |
| 10,11,12 | 3G Module Status | 0 no 3g module, 1 no signal, 2 signal poor , 3 signal normal, 4 better 5 very good |
| 13 | vehicle is not moving | 0 invalid , 1 not moving |
| 14 | overspeed | 0 normal, 1 overspeed |
| 15 | gps data type | 0 real time (currently) 1 delay (early data) |
| 16 | too low speed | 1 too low speed (depends on settings) |
| 17,18,19 | not use |  |
| 20 .. 27 | Io State | IO0—IO8 state , 0 low , 1 hight |
| 28 | HDD2 inavlid | 0 invalid, 1 valid |
| 29,39 | HDD2 status | 0 hdd2 dose not exists, 1 exists , 2 hdd2 power off |
| 31 | no used. |  |