

ACCREDITED SOLUTION

EXPLORER® Vehicular – GpsGate VehicleTracker



Document Name: EXPLORER Vehicular – GpsGate VehicleTracker

Revision: B

Introduction: This document describes the GpsGate VehicleTracker from Franson Technology AB and how to set it up for real-time position reporting via the EXPLORER 527 and EXPLORER 727 vehicular systems.

Typical Users:

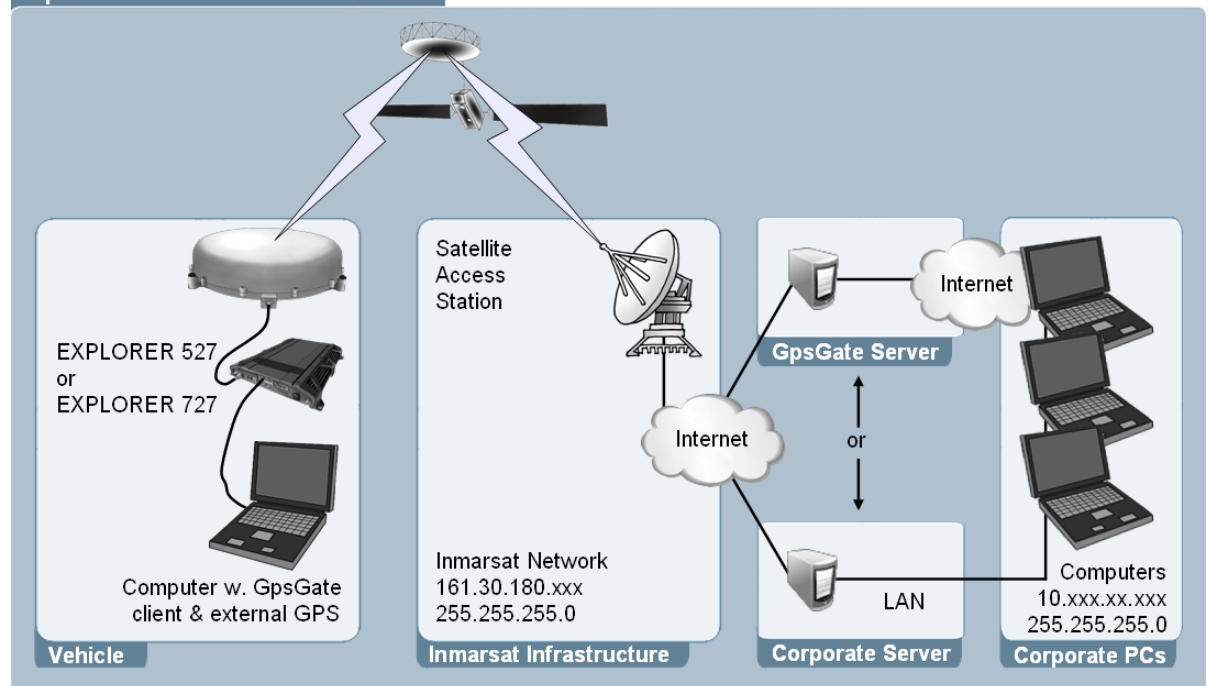
- ▶ Media
- ▶ Government employees
- ▶ Humanitarian workers
- ▶ Field service techs
- ▶ Expeditions

Product Description: VehicleTracker is a web based tracking application built on GpsGate Server. Operators can see their vehicles in real-time and display historical track information for selected vehicles. Access is defined for each operator for a set of vehicles having a personal account for security and flexibility purposes.

All tracking and VehicleTracker administration is done via the web interface, thus minimizing the installation and configuration in the field.

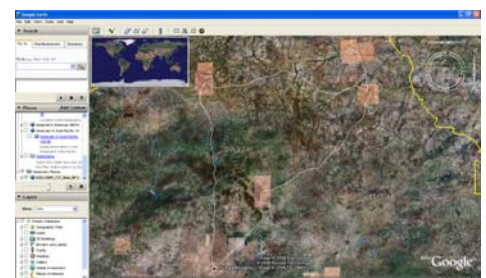
GpsGate Server is designed for flexibility so it can be installed on a dedicated corporate server, a hosted server or even on a local PC. Everyone with administrator rights and an Internet connection can view the vehicles including the field staff using the EXPLORER 527 or EXPLORER 727 system.

GpsGate VehicleTracker Overview



Features:

- ▶ Logging of position reports for later transfer.
- ▶ With the Franson GpsGate PlugIn Pack it is possible to use GpsGate with GoogleEarth. GpsGate fills the gap between the GPS and GoogleEarth, and enables real-time GPS tracking in GoogleEarth. The PlugIn is free for all users that have a licensed copy of GpsGate.
- ▶ Tracked data can be exported in KML and CSV formats for further processing or e-mailed to a GoogleEarth user.
- ▶ Share GPS data over a network and between computers.
- ▶ It is possible to use GoogleMaps or custom maps in



Imported to GoogleEarth

VehicleTracker. Users that prefer their own map, for example a map of a local part of town, can import them to GpsGate Server VehicleTracker.
► Option of having live tracking on your own website.

More product information on <http://gpsgate.com/index.php?id=95> or watch a screencast on the following link http://franson.com/gpsgate/screencasts/client_wizard/client_wizard.asp

Franson contact details:

Support <mailto:support@franson.com>
Phone (International) +46 8 612 50 70
Phone (USA & Canada) +1 866 407 1407
Website <http://www.franson.com/>

Thrane & Thrane contact details:

E-mail <mailto:solutions@thrane.com>
Thrane & Thrane Distributors <http://www.thrane.com/Contact/Distributors.aspx>
Website <http://www.thrane.com>

Tested on products:

EXPLORER 527 Software version: 2.04
EXPLORER 727 Software version: 1.04

Franson:

GpsGate for Windows 2.6.0 build 309

Instructions:

Before starting on the actual GpsGate client installation on the vehicle's Windows computer an external GPS receiver must be installed on the computer. The GPS receiver can either be a USB dongle (preferred for ease of use) or a Bluetooth enabled GPS receiver that can be paired with the computers built-in Bluetooth device.

It is recommended to choose a GPS receiver equipped with a SiRFstarIII chipset for best possible performance and fast Time to First Fix.

Vehicle Setup:

Follow these steps to install the GpsGate client on the Windows computer used in the vehicle. Below example is for a laptop with Windows XP operating system.

Download the 14 day free trial GpsGate client using below link:
<http://franson.com/gpsgate/download.asp?file=GpsGate.exe&platform=winxp>
Run the program and follow the installation wizard.

When the GpsGate client is successfully installed you can start to configure the GpsGate client.

Configure the GpsGate client to connect to your GPS by following the wizard or right-click on the icon and select Settings. Below example shows how to use a Bluetooth GPS (If you have a USB GPS, then select the appropriate input).



Step 1: Select "Bluetooth GPS" as input to GpsGate client (Please refer to Figure 1) and click the "Setup Wizard" button.

Click on "Find new GPS".
Select your GPS in the list.

Press "OK" to finish.

You will see the GpsGate icon turn green (🟢) when it receives a valid input.

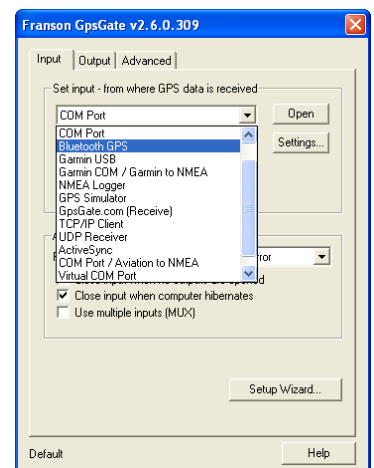


Figure 1. Input

Step 2: Click on Output in the top.

In the drop-down list select GpsGate.com (Send) as Output to GpsGate (Figure 2) and click Add.

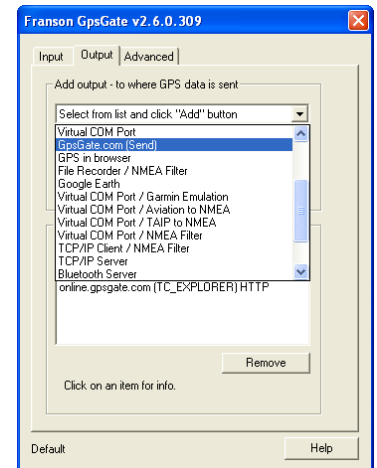


Figure 2. Output

Step 3: This will open up the new GPS Connect Wizard where the default setting is for connecting to GpsGate.com (Figure 3).

Click on Next.



Figure 3. Server configuration

Step 4: Click Next and you will see the window where you enter your Username and Password received from GpsGate (Figure 4). If you haven't already registered on GpsGate.com please do so now before continuing.

Click on the Test button to verify that you entered the correct Username and Password.



Figure 4. Username & Password

Step 5: Under Advanced you can choose how often you wish to send your position to GpsGate.com (Figure 5). Please note that the fastest real-time update interval over BGAN is approx 10 sec. If you want the default settings for buffering your position information click the Finish button, but if you wish to apply your own settings for buffering click the Buffer Settings button.

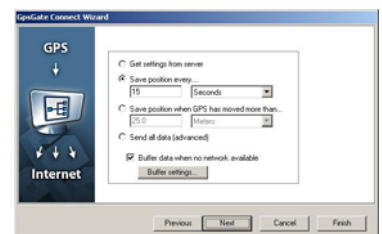


Figure 5. Reporting setup

Step 6: Here you can choose where you want to keep your saved buffered Tracks and set the maximum files size allowed, the default setting for buffer size on a Windows Client is unlimited (Figure 6).

Click on the OK button to start the position reporting.

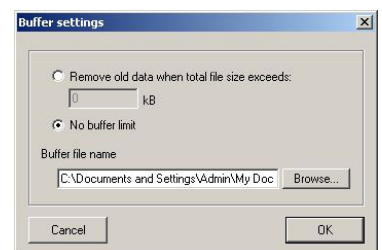


Figure 6. Buffer settings

Now the GpsGate client has started to buffer the position reports at the chosen interval.

EXPLORER system:

Corporate PCs:

Configuration of the EXPLORER system is not necessary if set to default settings, as the GpsGate client uses the Standard Data connection on the LAN interface to transfer the GPS information.

Switch-ON the EXPLORER system and connect your laptop to the LAN interface. The GpsGate client will automatically start reporting when it shows Data Active on the EXPLORER Dashboard.

As the VehicleTracker is a web based tracking solution it will not require any installation on the PCs. All that is needed is the license already obtained from Franson, a web browser and Internet access. The username & password used in the GpsGate client is also the LogIn for the VehicleTracker <http://www.gpsgate.com> Go to Admin, add a vehicle and a new User. You can now view the position of the vehicle(s).

There are four types of maps available in VehicleTracker that can be selected dynamically, Maps, Satellite, Hybrid & Terrain. Figure 7 shows the track on a map and Figure 8 shows the Hybrid layout.

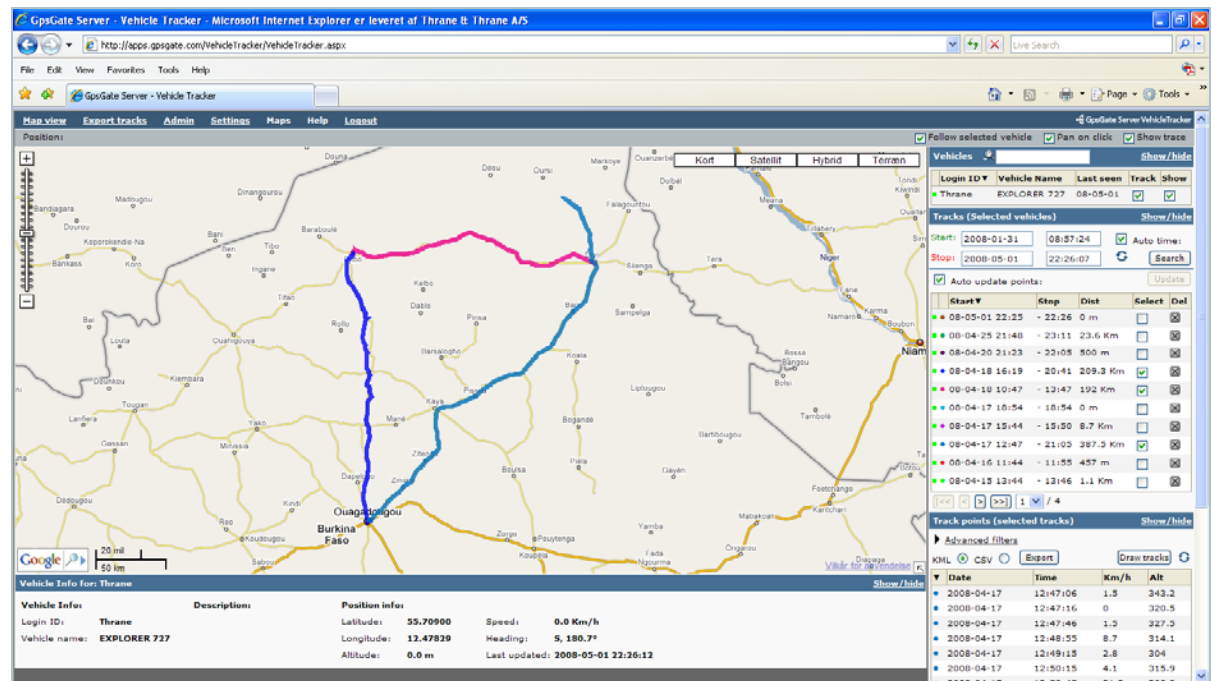


Figure 7. Map layout

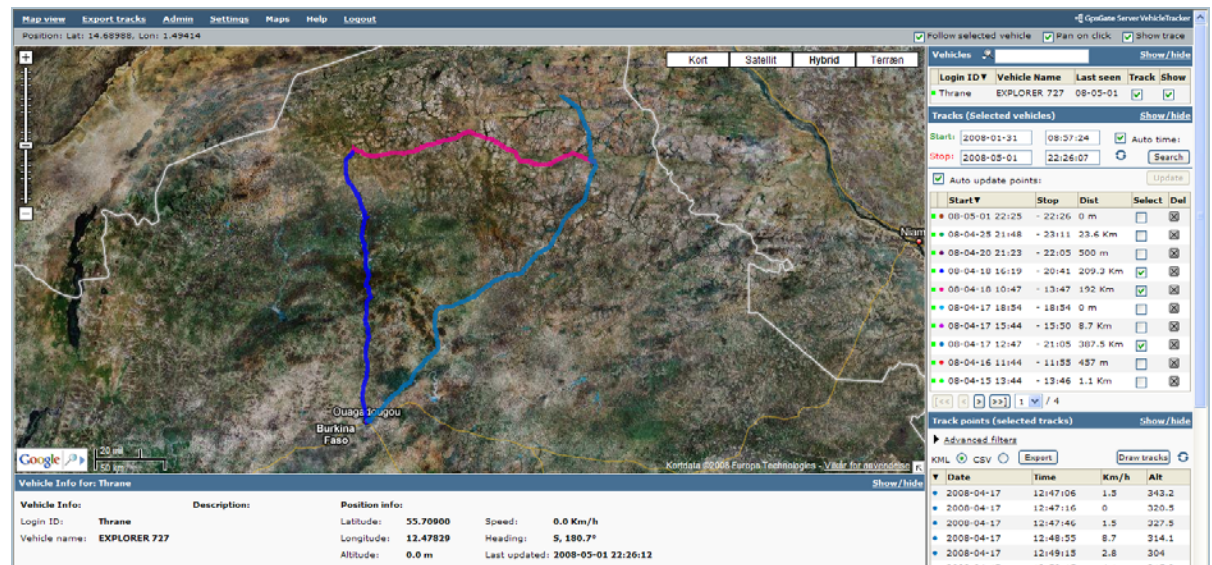


Figure 8. Hybrid layout

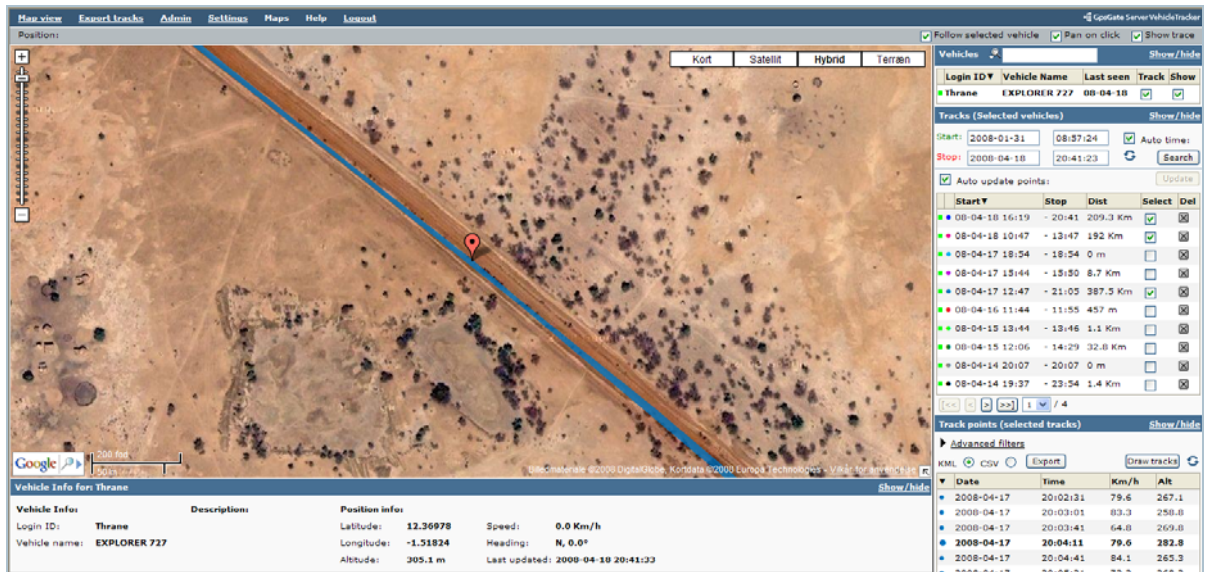


Figure 9. Zooming in to 200 feet on a recorded position.

Anyone who is granted access to the server will now be able to view the vehicles location, heading, speed and altitude in real-time and display its historical tracks.

Note:

If above instruction is followed step-by-step it will take approximately 30 min. to set it up the first time.

GpsGate VehicleTracker + GpsGate Standard for Windows (Product ID: 300225687). Please refer to Franson for more information on pricing.

You need one license for each additional VehicleTracker vehicle/user/administrator account you create on the server. 12 months free up-upgrades are included. License keys will be delivered by email after making the purchase.

In addition to the above the data transferred over the Inmarsat BGAN system in connection with the tracking application has a fee calculated per MB. Please refer to your Inmarsat Service Provider (ISP) or Distribution Partner (DP) for further information.

Remember to close GpsGate.com (Send) as Output when you want to stop updating your position on GpsGate.com

Tested:

All tests where performed on a Standard Data connection:

- #1 Windows XP computer with an external Holux GPSlim 240 Bluetooth GPS receiver. The computer was connected to the EXPLORER 727 system via the LAN interface reporting with an interval of 10 sec. generated approximately 60kB (0.06MB) of data per hour.
- #2 Same setup was successfully tested on the EXPLORER 527 system.
- #3 Tested with a wireless D-Link router connected to the EXPLORER 727 LAN interface.
- #4 Same setup was successfully tested on the EXPLORER 527 system.

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