

Orion Setup Guide

(updated 2013-12-22)

This guide shows you how to setup the GPS tracking software on your own computer.

You need the following to complete the setup:

For the tracking server:

- A Windows computer
- A Broadband Internet connection with a fixed public IP address

For the tracking device:

- A GPRS enabled SIM card

1 Install tracking server

The tracking server can be installed on Windows 2012 / 2008 / 2003 / Windows 7 / Vista / XP / 2000.

***Note:** Windows Home Basic and Starter editions are not supported due to IIS restrictions.*

You need a dedicated or virtual computer to which you can make a normal Windows login. You can not install the server on a shared web hosting account.

The server needs one static public IP address so that Internet connected tracking devices can send data to the server.

The recommended database for GpsGate Server is MySQL 4.x and 5.x. Please do not use any beta versions of the databases.

1.1 Run installation wizard

1. Run the installation file. The Install Wizard will guide you through all the steps.
2. When you click **Finish** in the Wizard a browser window will open to take you through the final setup steps.
3. When you create your Site administrator you can select your own user name, in the guide we use “**admin**”

After the plugin install process the tracking server setup is completed. You are logged in as the Site Administrator, so you can move on to the next step directly.

1.2 Check Internet connectivity

Verify that your server can be reached from the Internet and that the device plugin is installed correctly.

1. Login to SiteAdmin and select the **Devices** tab
2. Click on "Test" for the listener for your device.

The test checks if your tracking server has Internet access and if it can be reached from the Internet on the selected port. Follow the online instructions if your test fails.

2 Create tracking application

Use the **Basic One** application template when you create your first tracking application, it includes a pre-configured workspace that is suitable for real time tracking. Application templates are complete application configurations that simplify application creation.

Follow these steps to create an application with the **Basic One** template:

1. Login to the **Site Administration** application, if you are not logged in already
2. Click on the tab **Applications** and go to the menu **Create New**
3. Select the **VehicleTracker** application type and the **Basic One** template
4. Enter a name (we use “**Real time tracker**” in this guide) and description for your application and click **Next** to continue
5. When asked for an administrator select **Add existing** and select your Site administrator account as the application administrator, click **Next** to continue
6. Select your language settings and time zone in the Localization section, click **Finish** to complete the wizard

The login url to the **Real time tracker** application is found by clicking the application name on the page **Applications / Search and Manage** in the Site Administration application.

Click on the ***application url*** to login to your application.

3 Add user to your tracking application

Login to your **Real time tracker** application as administrator.

Follow these steps to add a user starting from the main map view page:

1. Click the “**Add new User**”-button in the vehicle list
2. Enter the following in the Setup user panel:
3. Select the user type: **Device** and click **Next**
4. Username: **user1**
5. Name: **Car 1** (or something like a name or license plate that describes your user better)
6. Password: **1234** (or select another password if you like, please make a note of it)
7. Click on **Next**
8. Mark the checkbox **_Unit** in the Set permissions panel and click **Next**
9. Mark the checkbox **Show on map** in the select tags panel and click **Next**
10. Select the device type **Orion**
11. Enter the IMEI < *the device IMEI number* > and click **Next**
12. Click on **Save** to save the user

This completes the basic application and user creation.

4 Configure tracking device

Note the following before you start:

- Disable the PIN code check on the SIM card (put it in a mobile phone to do this)
- Test the SIM card in a mobile phone to verify that GPRS is activated and that there is credit on the SIM card
- Insert SIM card and power on the tracker

GPRS Configuration with Hyper Terminal:

1. Insert SIM card into the device.
2. Connect the device with your computer by RS232 cable and 8pin installation cable powered by AC adapter. Confirm if the baud rate is 38400 in hyper terminal.
3. In hyper terminal, press <Esc> repeatedly to enter debug mode.
4. Type **scfg** after \$> to enter Main Setting Menu.
5. Select **2** for GSM/GPRS Connection Setting.
6. Select **5** for GPRS Connection Setting.
7. Select **1** to **4** for **GPRS Dial Number**, **GPRS User Name**, **GPRS Password**, and **GPRS APN** respectively. Input or change data where necessary according to your telecom provider settings.
8. Continue press **E** to exit back to the top Main Setting Menu.
9. Select **3** for **Gateway Server Setting**.
Enter the IP address for your tracking server: <like **123.123.123.123**>. If you use a firewall, enter the firewall IP address and configure the firewall to forward incoming data to your tracking server.
Enter the port number: **9998**
10. Continue press **E** to exit. When prompted to **Write to the External FLASH [YES | NO]**, type **YES** to save configuration to flash memory.
11. Type **run** to restart the device.

When you have restarted the device your device should be getting online in a few minutes. Make sure that the GPS antenna has a clear view of the sky as the most common problem is that the device does not get a valid GPS fix.