

## D3E ELECTRONIQUE

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# Getting Started Guide

## User Guide

# ArpentGIS-Trajet 1.2

# ArpentGIS-Trajet 1.4



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# ArpentGIS-Trajet Solution

## Getting Started Guide

Welcome to the ArpentGIS-Trajet Getting Started Guide. This manual describes how to use ArpentGIS-Trajet software.

ArpentGIS-Trajet 1.2 is a Windows Mobile application (Windows Mobile 5.0 ou Windows Mobile 6.x).

ArpentGIS-Trajet 1.4 is a Windows application (XP (Home/Professional/Professional x64 edition/Tablet PC Edition)/ Vista (32&64 bit) / Seven last updates applied)

Typographic conventions :



**Warning :** This icon is used to underline an important information concerning either the software or the hardware.



**Details :** ①, ②, ③, ④... This icon is used to describe in details options of the software .



**Note :** This icon is used to describe a specific option of the software. This option is not a requirement.



**Need more advices ?** Any issues with the software or hardware ? Please contact D3E ELECTRONIQUE technical support.



**Tip :** This icon is used to give an advice to the user. This option is not a requirement.

This guide contains :

- A full description of the installation of the software ArpentGIS-Trajet 1.2
- A full description of the use of the software ArpentGIS-Trajet 1.2



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## In this chapter

- 1.1 System requirements
- 1.2 Installation

# Chapter

# 1

# How to install ArpentGIS-Trajet ?

*ArpentGIS-Trajet* is a GPS recording application to collect routes tracks and points features. This application is a Windows Mobile software and works on a mobile device connected GPS receiver (built-in or with a wireless connection). The following softwares are pre-installed on the device : .net compact framework 3.5 and *ArpentGIS-Trajet*.

## 1.1 System requirements

**ArpentGIS-Trajet software :** *ArpentGIS-Trajet* requires a connection to a mobile device (Windows Mobile 5 or higher) connected to a GPS receiver NMEA capable (sentences GGA, RMC, GSA).

### Trimble device compatibility :

- Mobile device : Trimble Juno (SB/SC/SD), Trimble Nomad, Trimble GeoExplorer (XM, XT, XH)
- GPS receiver : Trimble GeoExplorer (XM, XT, XH), Trimble Pro Series (XRT, XRT-G, XT, XH)



*Note : Other NMEA devices can also be used.*

## 1.2 Installation

### 1.2.1 Laptop installation (XP, Vista, 7) from the USB device

*ArpentGIS-Trajet* installation requires two different steps :

- installation of the compact .net framework *ArpentGIS-Trajet.msi*
- installation of the main application *ArpentGIS-Trajet.exe*

#### .Net Framework installation



*Note : Administrator rights on the laptop are required for this installation.*

From the folder *ArpentGIS-Trajet* available on the USB device launch the file *ArpentGIS-Trajet.msi* and follow the steps on the screen. This first step will install the Compact Framework .NET.





## Installation of ArpentGIS-Trajet software

 **Note :** Administrator rights on the laptop are required for this installation.

From the folder *ArpentGIS-Trajet* available on the USB device launch the file *ArpentGIS-Trajet.exe* and follow the steps on the screen. This second step will install *ArpentGIS-Trajet* on the device.

## In this chapter

- 2.1 Main menu
- 2.2 Configuration
- 2.3 Skyplot

# Chapter

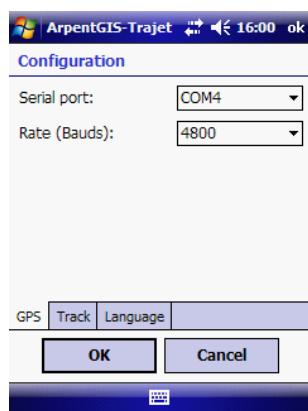
# 2

# How to configure ArpentGIS-Trajet ?

## 2.1 Main menu

The GPS connection is set automatically. If the connection is correctly defined in the application the GPS receiver will stay connected till the end of the field data collection. If the user gets a connection issue, an error message is displayed by the application.

Click on the *Settings* button to modify the GPS connection settings : COM Port setting (*COM4* for the Juno SB, SC ou SD), Baud rate (4800 Bds by default).



## 2.2 Configuration

To configure the software, click on and configure the tabs to fit the GPS receiver.

NMEA protocol capability is required. If the receiver is not NMEA capable the buttons

and won't be available.



**Note :** To switch a Trimble Juno (SB, SC ou SD) mobile device to NMEA protocol, click on the *reset* button on the device with the stylus.

If the user still gets an issue, use the GPS Controller software and follow the user guide *Paramétrage de la sortie NMEA* visit D3E Electronique website or contact the hotline 0892.68.10.57 (0.34€ /min).

### 2.2.1 GPS Tab

- GPS Port COM setting (1 to 8) (ex. Juno (SB/SC/SD) : COM4)
- Choose the correct GPS Port COM and the baud rate (1200, 2400, 4800, 9600, 19200) : 4800 by default (ex. Juno (SB/SC/SD) : 4800)

## 2.2.2 Track and Language Tab

The *Track* tab allows to change the frequency (in seconds) of the GPS recording.

The *Language* tab allows to change the language of the software *ArpentGIS-Trajet*.

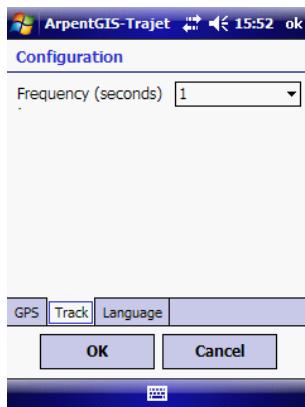


Figure 2.1: Log frequency



Figure 2.2: Language selection



**Warning :** The user must restart the application after the selection of a new language.

## 2.3 Skyplot

At any time the user can access the satellite information to check the status of the receiver : number of satellites, PDOP, coordinates ...

Click on the symbol in the status bar to access the skyplot.

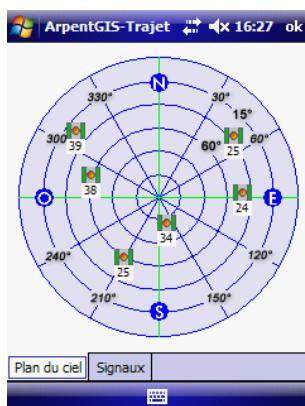


Figure 2.3: Positions of the satellites in the sky

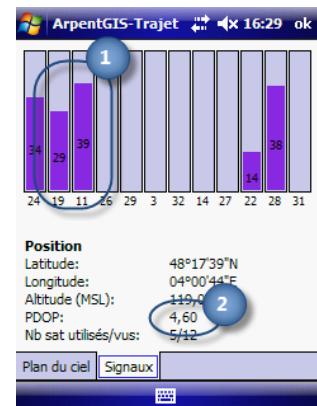


Figure 2.4: Power of the signals received by the receiver



**Details :** ① If the bars are high, the strength of the signal is high  
② The higher the PDOP value is the smaller the accuracy is

### In this chapter

- 3.1 Create a project
- 3.2 Open an existing project
- 3.3 Create and save a new track
- 3.4 Quit the project

## Chapter

# 3

# How to use ArpentGIS-Trajet ?

## 3.1 Create a project

- Click on  New project
- Enter the name of the project (spaces and accents are allowed but not specific characters such as "\ " or "/ " ).  
When the cursor is displayed in the textbox *Project* keyboard automatically appears.

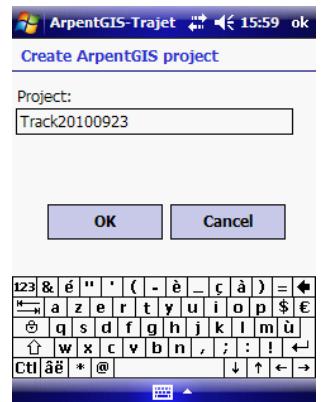


*Note : Projects are stored as .agi files in the folder |My Documents|ArpentGIS\Projets of the mobile device.*

- Click on the  Ok button to access to the log window or click on the  Cancel button to return to the *Main menu*.



*Note : A single project has no storage limitations (number of features or number of GPS positions). The only restrictions is the flash disk memory of the mobile device. Transfer data to the laptop and clean the memory of the device regularly.*



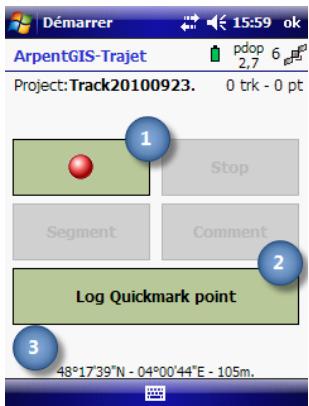
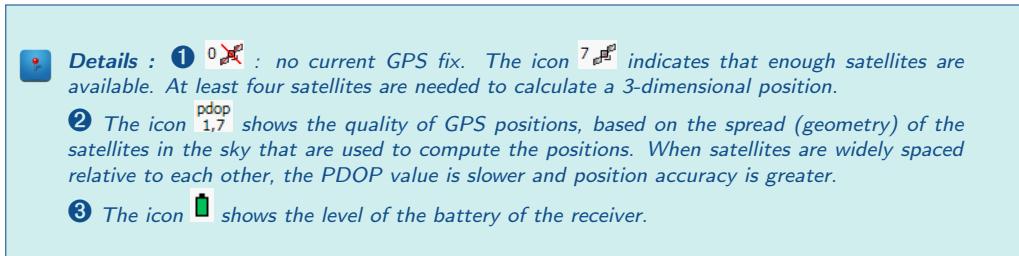
## 3.2 Open an existing project

- Click on  Open project to open an existing project and add new tracks
- Select the file to open and click on the  Ok button.  
Click on the  Cancel button to return to the *Main menu*.

### 3.3 Create and save a new track

#### 3.3.1 The Log window

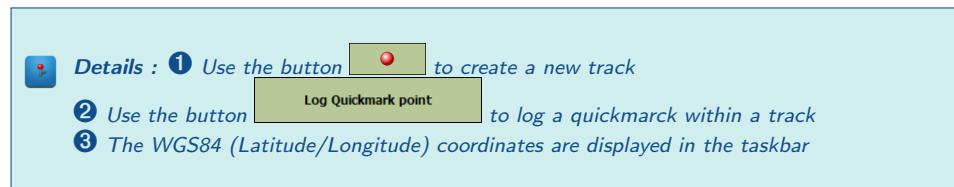
If the GPS receiver is not connected, the following window is displayed and the main buttons are disabled.



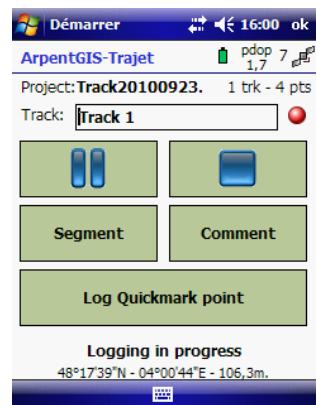
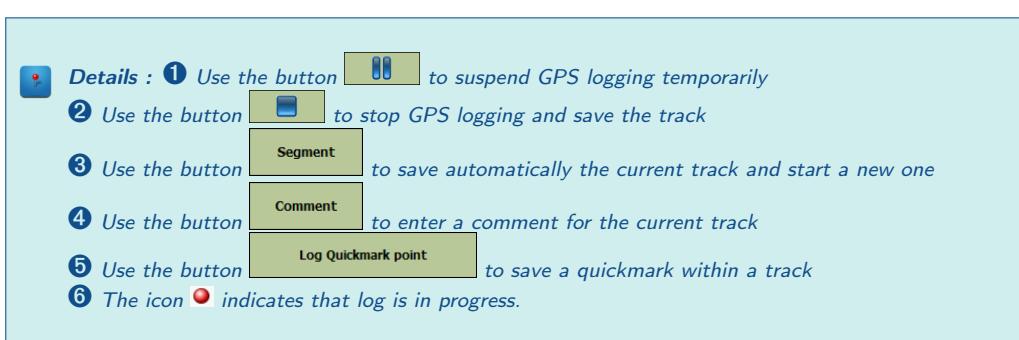
#### 3.3.2 How to log new tracks ?

##### Introduction

After the first fix, the following window is displayed and the main buttons are enabled.



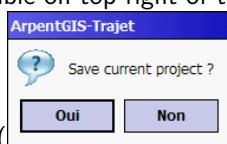
#### Recording a new track



**Note :** Use the textbox to change the current name of the track. By default (Track 1, Track 2...).

### 3.4 Quit the project

Before the end of data collection and before closing ArpentGIS-Trajet, stop the current track by using the button . Then, use the button available on top right of the screen.



If a confirmation message is displayed () , choose **Yes**.



**Warning :** If needed, use the software ArpentGIS-Expert to display, analyze, edit or export data.

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