# GPS Tracking Hardware Integration

Find'n'Secure's extensible design allows it to be integrated with nearly any GPS tracking device on the market without a change in the core tracking application. For each type of GPS tracking device that integrates with the system, we design a listener which bridges the gap between the device and our software. The listener is developed based on the specification of your GPS tracking device to be integrated, so you know it is supported to the device's fullest capabilities. Find'n'Secure already supports a number of popular GPS tracking devices on the market, such as Hunter Pro etc. If you find that your GPS tracking device is currently not supported, we can write a listener for you and get your devices reporting into Find'n'Secure in no time.

## Q. IF I NEED TO INTEGRATE GPS TRACKING DEVICES HOW MUCH WILL IT COST AND HOW LONG DOES IT TAKE?

The building of custom listener projects is typically based on time and materials. Typically, if you can have provide us a device on returnable basis and provide us with the technical specifications for the GPS tracking device itself, we can integrate it in 2-3 weeks for a cost of approximately $6,000 to $8,000 USD. The factors we commonly find that move the project outside of this range are when we cannot receive a device for testing, the device has poor documentation, or the device is no longer supported by the manufacturer. In some instances, devices on the market today have a wide array of specialized features that need to be implemented on a case-by-case basis. Integrating these advanced features can, in some instances, take a substantial amount of time, extra charge and we will need to review the functionality necessary. Based on your requirements, we can provide you with a custom quote for the additional integration work. The best solution is to talk with your sales representative, and he or she can give you a detailed quote based on your specific situation.

## Q. HOW DO THE LISTENERS WORK?

Listeners work by adding an abstraction layer between the physical GPS tracking device and the Find'n'Secure development API. There are four main goals of the listener, the first of which is to physically get the data from the GPS tracking device. The second goal is to parse and decode the data received, based on the rules specified by the hardware vendor, and map them over to our APIs. The third goal is to communicate back to the GPS tracking device based on events that happen within the system. An example of this would be to allow a Find'n'Secure Tracker monitor to unlock the vehicle's doors remotely. Finally, the last goal is to integrate the listener so that the listener is an extension of the Find'n'Secure system. This means that we professionally package the listener as a Linux service, which will enhance the Find'n'Secure user's insight on the health and capabilities of the devices. Please refer to the Device Matrix below for more information:

# Device Matrix

| Types of devices: | Ways a device may communicate: |
|---|---|
| • GPS enabled PDAs<br>• Vehicle Mounted GSM/GPRS devices<br>• Personal Trackers | • TCP/UDP Always On Connection<br>• Direct SMS Messages |
| **Messages a device might send:** | **Messages a device might respond to:** |
| • Current Speed and Location<br>• Panic Button Pressed<br>• Overspeeding | • Disable the Starter<br>• Unlock Doors<br>• Sound Alarm |

## Q. WHAT DO I NEED TO PROVIDE FOR YOU TO BUILD A CUSTOM LISTENER FOR MY GPS TRACKING DEVICE?

The fastest and most efficient way to build a custom listener is to provide us with all the information we need, and to have the items listed below in house. If you do not have some of these items, we can, in many cases, work around it. For more information, talk with your sales representative and he or she will work up a custom quote based on your situation.

- A device on returnable basis be sent to us.
- Product documentation, including the hardware manual and programming APIs if available.
- Contact information for the GPS tracking device manufacturer, preferably a contact name and phone number for support.
- Username and password to the test gateway, if your GPS tracking device uses it.

## CONTACT US TODAY

If you would like more information about development of a custom Find'n'Secure Listener, give us a call at one of the numbers below or simply send us an email. Our professional sales team is ready to assist you!

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