

# GPS Path



## Satellites

24 GPS satellites (four satellites in each of six orbits) provide the GPS coverage.

## GPS Devices

The GPS Vehicle and Asset Trackers are comprised of GPS satellite receivers combined with a cellular radio.



**TCVT2**  
Honeywell Total Connect™ Vehicle Tracker



**TCAT**  
Honeywell Total Connect™ Asset Tracker



**TCAT-EB**  
Honeywell Total Connect™ Asset Tracker  
(with Extended Battery)



## Cellular Tower

GPS device transmits a signal every five minutes to cell tower (enhanced plan) and every 24 hours via the basic plan.

## AlarmNet®

Speed, geofence and location alerts transmitted to AlarmNet®.



## Global Positioning System

Always listening for latitude and longitude using global positioning, the Global Positioning System (GPS) is a space-based satellite navigation system that provides location and time information in all weather, anywhere on the Earth, where there is an unobstructed line of sight to four or more GPS satellites.



Honeywell Total Connect™ Tracking Services provide real-time location information to customers.

# Honeywell Total Connect™ GPS Vehicle and Asset Tracking FAQs

## Application

### Who is the target market?

Any consumer, whether commercial or residential, who wants to be informed of the whereabouts of a vehicle or asset.

### What vehicles are compatible with the Honeywell Total Connect Vehicle Tracker (TCVT2) and Honeywell Total Connect Remote Services?

All cars and most trucks sold in the United States since 1996 must be equipped with the newer OBD-II system.

The TCVT2 uses a certain amount of current from the vehicle's battery even when the vehicle is turned off. Care should be taken in using the device in vehicles that have old or weak batteries or that may go extended periods of time without being started. Smart Power Mode: TCVT2 will lower the current draw by disabling GPS in the event the vehicle battery is lowered to 11.5 volts. Once the vehicle battery voltage exceeds 12.4 volts, GPS will be re-initialized.

### What is the purpose of the OBD port?

An On-board Diagnostics (OBD) system monitors engine functions and serves as the diagnostic control network of the vehicle. The TCVT2 connects to a vehicle's OBD port and monitors the OBD system using a variety of communication protocols.

### What is the typical installation for a Honeywell Total Connect Asset Tracker (TCAT)?

The TCAT is designed for the intelligent monitoring of mobile and fixed assets. An indefinite number of assets need to be monitored for regulatory compliance, security, national defense, operational efficiencies or just peace of mind. The TCAT and TCAT-EB both contain rechargeable batteries. The TCAT offers up to a two-month life expectancy with a full charge and the TCAT-EB may last up to two years, depending upon the activity use of the asset.

## Service

### What are the service options for Honeywell Total Connect Tracking Services?

BASIC	FEATURE	ENHANCED
✓	Tracking on Demand	✓
✓	Geofences (up to six per device)	✓
✓	Geofence Entry Notification	✓
✓	Geofence Exit Notification	✓
✓	Notification for Vehicle/Asset Tracker Low Battery	✓
✓	Notification for GPS Device Unplugged	✓
✓	Notification for GPS Device Restored	✓
✓	Notification for Asset Moving (TCAT-EB)	✓
✓	Notification for Asset Stopped (TCAT-EB)	✓
	Selectable Speed Alerts (ex. 70 MPH)	✓
	Five-minute Tracking Breadcrumbs	✓
	Tracking Event History (90 days)	✓

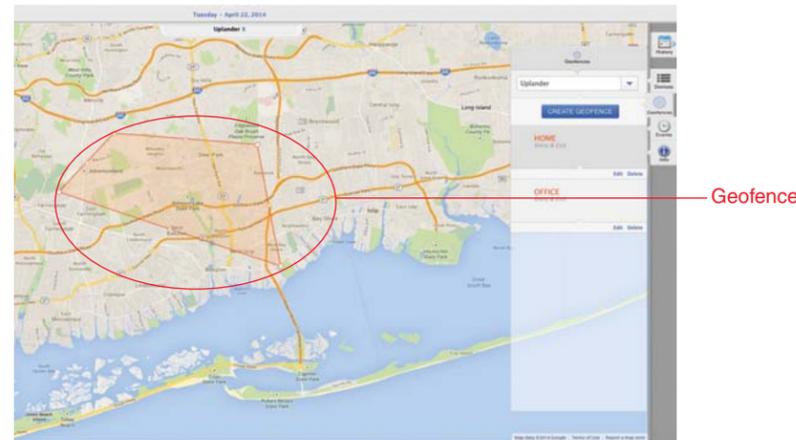
## Service (continued)

### Can GPS tracking services be a standalone service?

GPS tracking services may be a standalone Honeywell Total Connect service or combined with other remote services.

### What is a geofence?

A geofence is a virtual boundary around a physical geographical space. A geofence consists of a set of coordinates that define an area. GPS devices may be monitored entering or exiting a geofence.



### How does GPS tracking work?

The receiver built into the GPS device is listening to four satellites. The two-way CDMA radio in the GPS device communicates information every five minutes to the cell tower. The information is then passed from the cell tower to the AlarmNet® network operating center.

## Hardware

### How easy is it to install the GPS vehicle tracking device?

#### Installation

1. Make note of the MEID number found on the Module Identification Sticker. This will be needed during enrollment using the AlarmNet Direct website.
2. Ensure the vehicle is not running and is parked outside on level ground.
3. Locate the vehicle's OBD II test port. Typically it is under the dashboard on the driver side.  
**NOTE:** In certain installations the optional extension cable, approximately 24" (61 cm), may provide more convenient mounting. If needed, order Honeywell's VT-EXT extension cable. Use cable ties to secure the extension cable.
4. Connect the TCVT2 into the vehicle's OBD II port. After two minutes verify the Cell indicator is ON, and the GPS indicator is blinking.

#### Module Identification Sticker



Enter MEID # below:

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### What is the battery life on the TCAT and TCAT-EB?

The TCAT has up to a two-month battery life. The TCAT-EB may last up to two years, depending upon the activity use of the asset.