TACHO·SYS

DATA DOWNLOADED DATA DELIVERED

vtach

USER GUIDE

vtach Overview

vtach is a compliance and telematics solution designed for operators managing mixed vehicle fleets across the UK and Europe. It enables consistent monitoring of working time and drivers' hours across all vehicle types, helping fleets stay safe, compliant and efficient.

Using a familiar tachograph-style interface and a USB driver key for individual identification, **vtach** simplifies data collection and ensures accurate tracking, regardless of whether a driver is operating an HGV, van, or other vehicle.

Core Functions

Driver Compliance Monitoring: The **vtach** applies the same working time and drivers' hours rules to all drivers, regardless of vehicle type. This ensures consistent oversight and supports legal compliance across the fleet.

USB Driver Key Identification: Each driver uses a personal USB key to log activity. This provides a secure and reliable method for tracking individual driving and working time.

GNSS Location Tracking: The **vtach** captures real-time GNSS data, allowing fleet managers to view live vehicle locations and generate full journey histories.

Speed Data: is collected via the OBD connection to automate drive mode switching. A GNSS only mode is also available if OBD is not present in the vehicle.

Remote Download Functionality: Driver and vehicle data is automatically and securely transferred to your tachograph analysis provider or fleet management software. This reduces manual admin and ensures compliance is maintained across all vehicle types.

System Integration: The **vtach** is designed for easy integration with existing tachograph analysis systems, allowing for seamless deployment and centralised fleet oversight.

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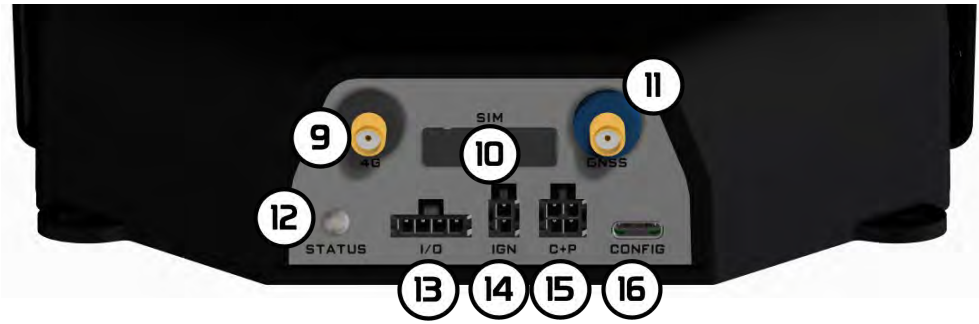

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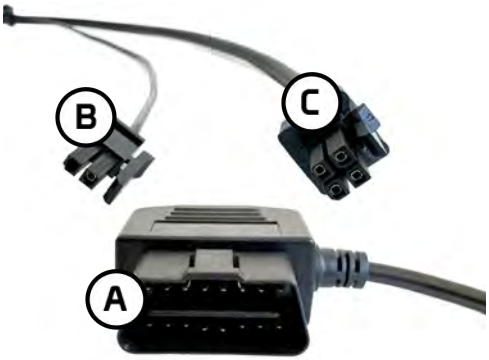
OBD Cable

The standard connection between **vtach** and a vehicle will be the **vtach** OBD cable (VT-OBD01). For more information see page 18.

The **vtach** OBD cable is recommended for all **vtach** installations as it is designed to be compatible with any vehicle manufacturer. It includes an open-ended ignition wire (**D**) for installs which require **vtach** to be connected to the vehicle ignition (**14**) for deep sleep mode.



A OBD Plug

B Ignition Plug

C CAN & Power Plug

D Open-ended ignition wire

GNSS (GPS) Antenna

Certain locations within the vehicle may prevent the **vtach's** internal antenna from attaining a GNSS (GPS) lock. An external GNSS (GPS) antenna (GPS-ANT) can be connected to the device via the GNSS socket (11) and the 3 metre cable gives the option to place it anywhere in the vehicle.

vtach Set Up using digiconnect

Initial configuration of **vtach** requires connection to digiconnect software on a PC using a **vtach** programming kit. See below for software download instructions and **vtach** configuration.

digiconnect Windows® Software v5.00 onwards

Minimum Recommended PC Specification

Processor: Intel P4 1.4GHz, AMD Athlon 1.4 GHz

Memory: 512Mbytes

Hard disk: 40 Gbytes

Video Resolution: 1024 x 768

Operating Systems: Windows 8 / 8.1 / 10 / 11

Please note: You will need the latest **vtach** configuration kit with Tachosys product code **VTACH-CK01**.

Important: do not connect any cables provided in the **vtach** Configuration Kit with the **vtach** before commencing the software installation.

Installing the digiconnect Windows® Software

1. Download the digiconnect software from our website www.tachosys.com/digiconnect.
2. Select the language required. This will initiate installation.
3. Click 'Next' when prompted whether you want to install digiconnect.
4. Read the terms of the Licence Agreement, accept the terms and then click 'Next'. *If you choose to not accept the terms the installation will be terminated.*
5. Choose the folder in which you wish the software program files to be installed. The default folder is the standard location for Windows® programs. Click 'next'.
6. Click 'Install' to begin the actual installation. This may take several minutes.
7. Leave the box labelled 'Launch digiconnect' ticked and click 'Finish'.
8. Now follow the instructions for 'Connecting the vtach to your PC' on page 8.

Connecting vtach to your PC

vtach should be connected to your PC using the **vtach** configuration kit (VTACH-CK01).

1. Your **vtach** must be powered for configuration purposes. Please use the power supply and converter cable provided in the config. kit.

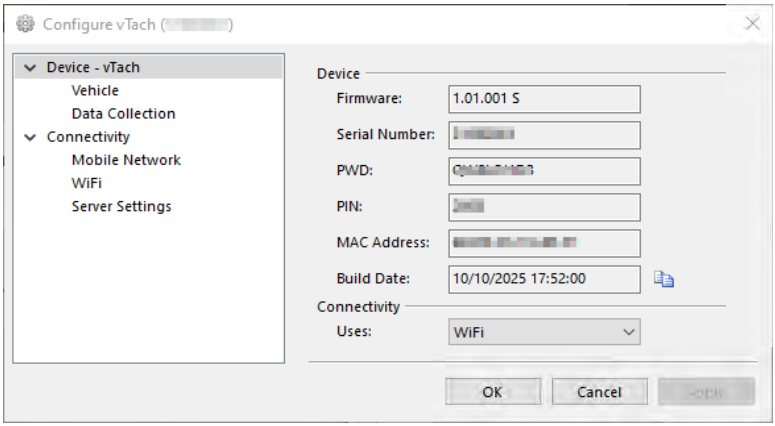
2. To connect with the PC, use the supplied USB A-C cable, connecting the PC with the CONFIG port on the **vtach**.

3. Once all connections are made, simply open digiconnect and you should see an image of the **vtach**, along with its serial number and configuration options as shown below.

If you are having problems connecting to your **vtach** then repeat the steps above.

Configuring vtach using digiconnect

To begin configuring your **vtach**, select 'Configure Device' from beneath the **vtach** image on the main digiconnect screen. This will launch the device configuration menu.



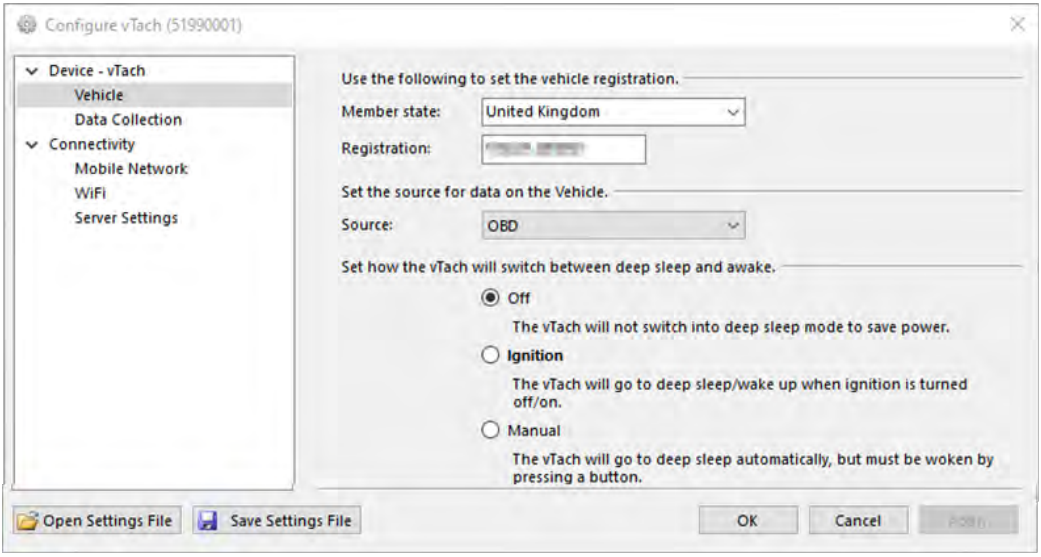
Device information

The initial 'Device - **vtach**' screen in the configuration menu will show the menu options on the left and device information on the right. See below for descriptions on the device information.

Firmware:	Version of firmware on device
Serial Number:	Unique to each device
PWD:	Used when registering a device on the digicentral server
PIN:	Used to access **vtach** configuration menu (see page 16)
MAC Address:	Unique identifier for network setup
Build Date:	Date and time of when device was built
Connectivity:	Options (Modem/WiFi)

Please note: the PWD entry (password) is a unique string which is used by your service provider or on your own digicentral for initial registration of the device. It avoids communication by random devices with digicentral. Coupled with our encryption it provides added security.

Configuring vtach - Vehicle



The Vehicle tab allows you to set the vehicle registration and the source the vehicle data is coming from.

Member State: Select the country where the vehicle is registered.

Registration: Enter the vehicle registration

Source: Select which source the vehicle speed data is coming from. If available you should select OBD, which is the default:

- **OBD (the default option):** If the **vtach** is connected to the vehicle via the OBD port using the OBD cable then select OBD as the means of collecting the vehicle data.

- **GNSS(GPS):** To be used if OBD is unavailable. The **vtach** can use an alternate method of accessing speed data by taking vehicle tracking data and calculating vehicle speed.

- Other source options may become available in the future.

Vehicle Power Saving - Deep Sleep and Awake modes

If you are concerned about battery drain on your vehicle there are a number of options to activate deep sleep mode on your **vtach.** Deep Sleep Mode will reduce how much power **vtach** draws while not being used.

Off: The **vtach** will not switch into deep sleep mode at all. This is the default.

Ignition: The **vtach** will go to deep sleep/wake up when ignition is turned off/on. For this method, **vtach** must be connected to the vehicle's ignition using the ignition wire on the OBD cable (see page 18 for details).

In this mode, like with the manual mode, you can force the device into deep sleep by pressing the Up key and following the prompts. To wake the **vtach** up from deep sleep press any key.

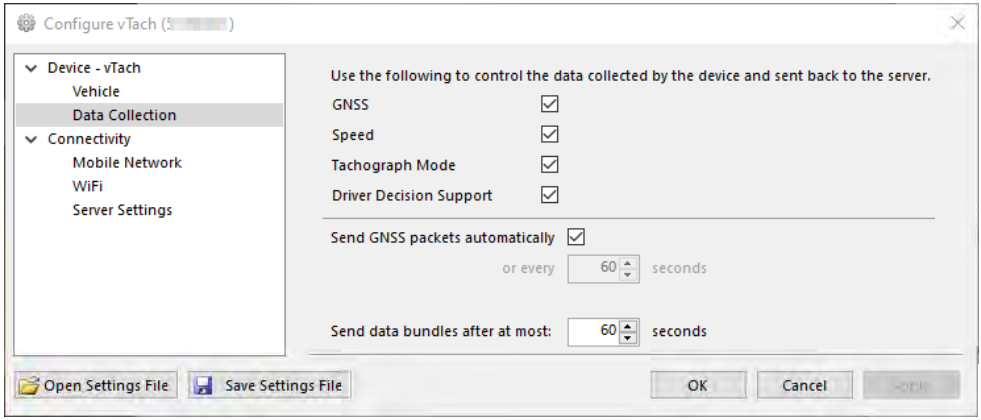
Manual: The **vtach** will go to deep sleep after pressing the Up key and following the prompts. To wake the **vtach** up from deep sleep press any key.

Saving and Loading Configuration Settings

Open Settings File: This allows you to load pre-saved device configuration settings. Simply locate the saved file and click 'Open'

Save Settings File: This allows you to save the device configuration setting. This can be useful if you wish to have the same configuration settings on multiple devices. When you click to save settings file, select the location you want to store the file and click 'Save'.

Configuring vtach - Data Collection



The Data Collection tab allows you to control what data is collected by the **vtach** and how it is sent back to the server.

GNSS: Switching this on will collect location data.

Speed: Switching this on will collect speed data via the OBD cable.

Tachograph Mode: This refers to real time data on every change of mode that can be sent back to the server to calculate driving and rest times.

Driver Decision Support: Enables Driver Decision Support (DDS) data to be logged.

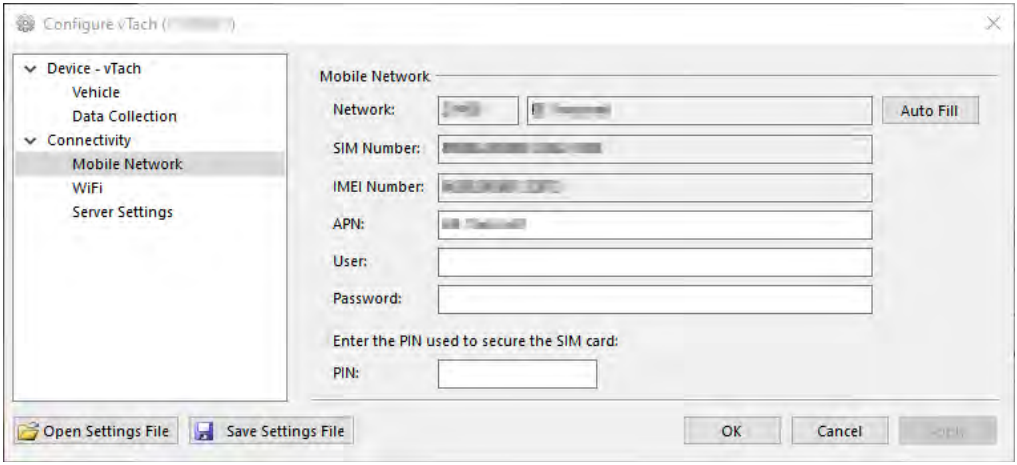
Send GNSS packets: You can choose whether location data is sent automatically or whether it is scheduled at set intervals.

Sending Data Bundles: this is the period the unit waits before sending log data to the server. The default is 60 seconds.

Configuring vtach - Connectivity

The Connectivity tabs are where you can configure the connectivity settings for the **vtach**. Depending on what connectivity option you have selected in the Device - **vtach** tab (see page 9), you will need to enter the appropriate information into the Mobile Network or WiFi settings screens.

Configuring vtach - Connectivity - Mobile Network



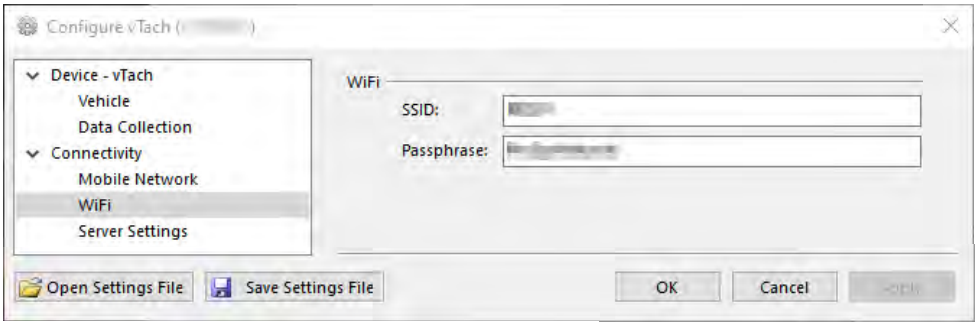
The device will recognise the information from the SIM card that is in the device and will autofill the Network, SIM Number and IMEI Number fields.

APN, Username and Password: The **vtach** requires an APN, Username and Password to use with the SIM card in the device. Please check this information with your network provider.

PIN: If your SIM card has a PIN applied to it, enter it in the PIN field and click OK/Apply.

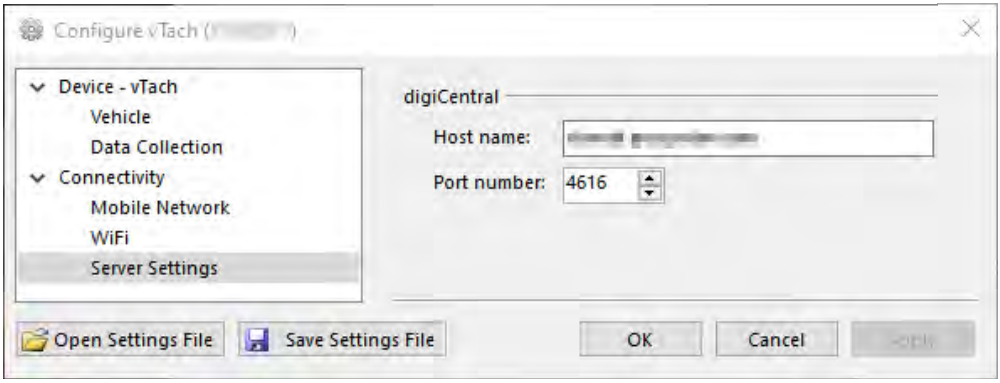
When you have completed all necessary fields, click 'OK' or 'Apply' to write the settings to the device memory. The **vtach** will save the settings and reboot.

Configuring vtach - Connectivity - WiFi



Enter the WiFi network information (SSID and Passphrase).

Configuring vtach - Connectivity - Server Settings



The Server Settings tab allows you to edit settings which determine which digicentral server any data is sent to.

Both Host name and Port number will either be provided by your analysis provider or will match your own digicentral server settings. The Port Number should be left as 4616 unless the digicentral server is exposed on a different port.

Confirming Correct Settings

If incorrect details have been entered in the Mobile Network, WiFi and Server Settings menus, then the Server Connection icon will be crossed out. If all details are correct, then the icon will not be crossed out. See more information on Server Connection issues on page 20.

If the Server Connection icon has warning triangle this means the device is not registered on digicentral but does have an internet connection.

Other digiconnect Functions

View Files on Device

On the digiconnect home screen, clicking on View Files on Device allows you to view the files that are on the device.

Change Firmware

digiconnect allows you to change the firmware version of the device. If you have an internet connection, digiconnect will prompt you to upgrade to the latest firmware version, however it also allows you to change the device firmware manually.

There may rare instances where an older version of firmware is required, but this will always be under the instruction of Tachosys.

Configuration Settings on vtach

While we recommend using digiconnect to configure your **vtach**, you can configure it using **vtach** itself. To do so, ensure the vehicle is stationary and the **vtach** key is not inserted then hold down the OK button until you see 'Enter menu code'.

Enter the device in using the up/ down and left/right arrow buttons, then Press OK. See the label on the box for your device PIN.

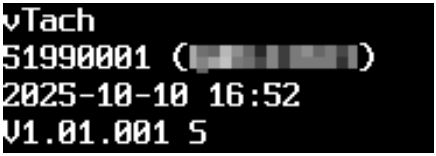
Once in the Use side arrows to navigate - OK to select, return arrow to go back

Menu Map

About

The About menu screen shows the following device information:

- Serial Number (digicentral password)
- Build date & time
- Firmware version



Timezone

Time Offset: Default is UTC - change according to needs using left/ right arrow buttons

Daylight Saving: Yes/No – change using left/right arrow keys - OK to confirm

Language

Select the required device language from list using left/right arrow keys, then press OK to confirm.

Registration

Nation: Selection from list using left/right - OK to confirm

Registration: Free form text for Reg # - use arrow keys to scroll letters and numbers - OK to confirm

Vehicle Data

This determines where **vtach** gets vehicle speed data from:

– Select your required option using the left/right arrow buttons (main two options are OBD or GNSS(GPS), however other options will be made available.
– OK to confirm

Connectivity

Type: choose either Modem or WiFi

Settings: these are dependent on the Type selection

- **Modem:** APN, Username and Password—all free text - OK to confirm
- **Wi-Fi:** SSID & Password - both free text - OK to confirm

digicentral

Hostname: Free text - OK to confirm

Port: 4 digit number - OK to confirm

Installation of vtach in a vehicle

Installation Steps (using OBD Cable)

Follow the instructions below to install a **vtach** using an OBD Cable (VT-OBD):

1. Before installing the device in a vehicle, ensure it has been registered and set up with a digicentral server and has a vehicle registration set (**see page 14**). The device must also have the GSM antenna connected to the corresponding socket and a SIM card inserted (if using mobile comms).

2. To install in a vehicle, first locate the vehicle's OBD port. This will vary from vehicle to vehicle, however your vehicle user manual should be able to help you locate it. Otherwise please contact your vehicle manufacturer.

3. Using the OBD cable (pictured), connect the large end in the OBD port in your vehicle. The smaller, four pin end should be inserted into the C+P port (CAN & Power) at the rear of your **vtach**. This will both connect **vtach** to the vehicle and power it.

4. The smaller wire on the OBD cable is designed to be fitted to the vehicle ignition to enable the use of deep sleep mode for power saving. This should be connected to your vehicle by an approved fitter (connecting the 2-pin end to the IGN socket on the **vtach** and connecting the bare end to a vehicle ignition source).

5. Once connected the **vtach** should power on. See pages 20-21 for methods of determining if there are any connection issues.

6. If you are not using an optional GNSS antenna (therefore using **vtach's** internal antenna), try to ensure **vtach** is placed where it can see the sky to ensure best signal quality. If this is not possible and there

are GNSS connection issues, you may require an external GNSS antenna which can be placed elsewhere in the vehicle.

7. Your **vtach** is now ready to use.

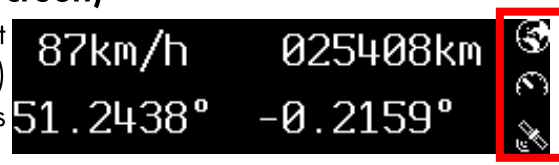
Testing the Connections

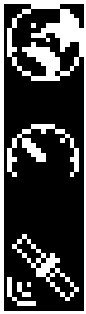
In order for the **vtach** to work, you will need to ensure that the Connectivity, Vehicle and GNSS (GPS) settings are correctly configured.

There are two methods of determining this either on the **vtach** screen or the Connection Status lights on the rear of the device.

vtach Connection Status (Screen)

On **vtach**, navigate to the Current Vehicle Data screen (pictured) and view the connection status symbols on the right of the screen.





Server Connection: Indicates connection to the server.

Vehicle Speed: Indicates a vehicle connection (i.e. vtach is receiving speed data, either from vehicle CAN or from GNSS).

GNSS (i.e. GPS): Indicates a lock onto a location satellite.

If all connection symbols on the right of the screen are active (not crossed out), then all three connections are active. If any icons are crossed out, see pages 20-21 for dealing with common connection issues.

vtach Connection Status (LEDs - rear)

The LED status light has four colours which correspond to certain functions:

Red	Power (only on initial power on)
Blue	Connection to digicentral via wireless comms
White	GPS Lock
Green	Speed (from your chosen source i.e. OBD)

The device status LED will roll around various colours once per second depending on whether the functions are connected (Blue, White and Green - Red just shows there is power when the device is first plugged in).

If you do not see one of the colours when the light rolls around, there is an issue with that function. This corresponds with the connection status icons on the screen. See below for dealing with common connection issues.

However, if any of the symbols are crossed through (see below), then this highlights there is a connection issue and will require troubleshooting.

Common Connection Issues

Server Connection Issue

If the Server Connection symbol is crossed through, this indicates a potential issue with the **vtach** connecting to digicentral. This could be either due to comms issues with your mobile or WiFi network or the communication with digicentral.

Firstly, ensure that the SIM card has been inserted correctly. With the device sitting flat, insert the SIM card with the metal strip facing down until you feel a click. Do not use excessive force when entering the SIM card.

Secondly, ensure that the correct antenna has been attached to the black GSM antenna socket (see page 4 for image).

Thirdly, you will also need to ensure that the correct Network settings

(4G/WiFi etc.) are configured in digiconnect or on the device itself (see pages 17 and 20 for more information).

Fourthly, check that the server settings are correct and that your **vtach** device is registered on digicentral. See pages 17 & 21. If the Server  Connection symbols has a warning triangle, this means that the device is not registered on digicentral.

 Vehicle Speed Connection Issue

If the Vehicle speed symbol is crossed through, this indicates a potential issue with **vtach** gathering speed data.

If **vtach** is set up to gather vehicle speed data using the OBD port, check that both ends of the OBD cable are connected properly with the vehicle and the **vtach**. Alternatively, if the vehicle speed data is gathered using GNSS (i.e. GPS), then follow the steps below under Location (GNSS) Connection Issue.

If this issue persists, please contact your reseller.

 Location (GNSS) Connection Issue

If the Location (GNSS) symbol is crossed through, this indicates that the **vtach** cannot establish a location lock.

Firstly, ensure that the **vtach** device is placed flat in a location with the device as close to an exterior panel as possible and away from other communication devices as they may cause interference.

If issues persist with establishing a location lock, you may require an external GNSS antenna. This is connected to the **vtach** using the blue socket on the rear of the device. Speak to your reseller for more information (see page 4).

vtach Key

A **vtach** requires a **vtach** key to be inserted for the vehicle data to be assigned to a specific driver.

The **vtach** key has a unique serial number on one side and a corresponding barcode on the other. This allows fleet managers to more easily keep control of the keys and is designed to use a driver's licence number. In order to configure a **vtach** key with the driver's information please follow the steps below.

vtach Key Configuration

Each **vtach** key needs to be set up using the **vtach Key Configuration** program or mobile app. This is available from the download page of our website (for PC and MAC), from the Microsoft Store and from the Google Play Store (Android) or AppStore (iOS—latest iPhones only).

Ensure digiconnect is not running on your device.

Once running, the app will ask you to "Insert the Key to Configure". Once a key has been inserted into your phone or an empty USB-C slot on your computer, the screen will then show the key's details.

The key's serial number and the last date a key was edited will be displayed at the top of the screen.

The following fields are editable:

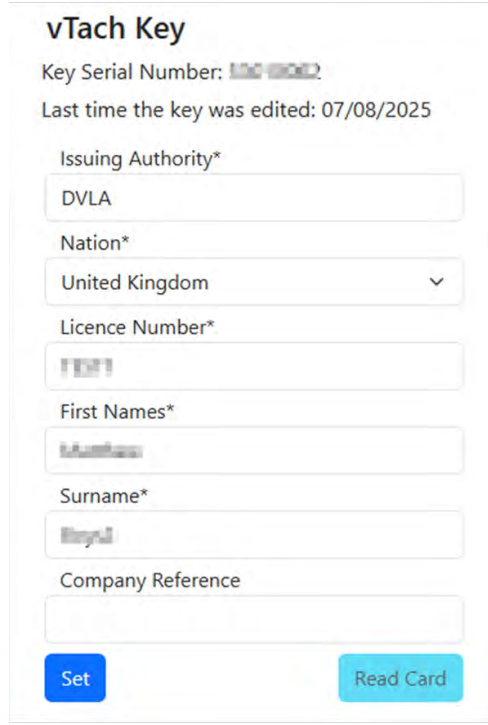
Issuing Authority (required): Enter the governing body responsible for issuing the driver's driver licence or driver card. (i.e. in the UK, this will be the DVLA).

Nation (required): Choose which nation the driver's driver licence or driver card comes from.

Licence (required): Enter the driver's licence number

First Names and Surname (required): Enter the driver's names

Company Reference (not required): - This field is designed to allow an internal company employee reference (i.e. an employee number) so that it can be found more easily in a data list.

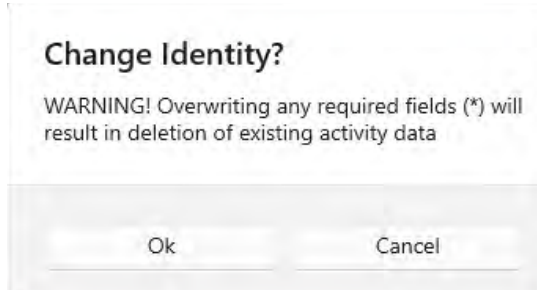


Set

Once you have entered all the relevant information, simply click the 'Set' button. You are now ok to remove the **vtach** Key from your phone or computer and use it in a **vtach**.

Editing the information on a vtach Key

Editing a **vtach** key is the same process as initial configuration. However, when a programmed key is inserted, **vtach** Key Config will give a warning stating that "Overwriting any required fields (*) will result in deletion of existing activity data".



The Read Card Function

On the PC or MAC app there is an additional Read Card feature which allows you to use **digicard** to speed up the process of filling out driver information. With both the **vtach** key and digicard connected, and with the **vtach** Key Configuration app running, you can simply insert a driver card into the digicard and click 'Read Card'. This will transfer the data from the driver card onto the **vtach** key.

This will only be possible for those drivers who have driver cards. If they do not, simply enter the details manually.

Reading Data on the vtach Key

While **vtach** is set up to transmit the vehicle and driver data to a digicentral server and then on for analysis, you can also manually view and download the driver data from the **vtach** Key.

After removing the key from **vtach** you can connect it to a PC (you must ensure that neither digiconnect or **vtach** Key Config are running). Your PC will see the **vtach** key as an external drive. Simply navigate into the drive and if your **vtach** key has been used you will see a digital tachograph file (.ddd file).

Using the Tachograph File Viewer Software and dongle (available from tachosys.com) you can drag the digital tachograph file into File Viewer to view the data.

If you wish to purchase additional vtach keys, please speak to your reseller or visit the Tachosys online shop.

Where does my data go? The role of digicentral

digicentral is a Tachosys product which runs on Windows servers to provide a communications platform for our devices. All of the UK online tachograph analysis providers have a digicentral server in operation. **vtach** needs to communicate with a designated digicentral server in order to pass data.

If **vtach** is correctly set up, it will automatically upload the driver files to digicentral.

vtach communicates with digicentral and is where your data files are forwarded to, just like any other Tachosys product. This allows you to monitor your whole vehicle fleet, whether they have a tachograph or not.

All of the key UK online providers have their own digicentral servers. Each will have a different web address.

The great thing about digicentral is that it can integrated with other systems and it therefore means that the customer's data goes straight from the vehicle and then onwards to their chosen analysis system.

Whilst fitters should receive **vtach** units that are already setup for the appropriate server it is worth understanding the process and what needs to be in place for **vtach** to function.

Please visit our website and view the digicentral user guide for information on how to use digicentral.

Device Display and Controls

1 OLED Screen
2 Activity Buttons
3 Light Indicator Bar
4 Mounting Holes
5 Navigation Buttons
6 Light Sensor
7 vtach Key Indicator LED
8 vtach Key Port

vtach Creates a Personalised Activity Log

The concept of **vtach** for a driver is that you have an activity log for all hours (whether you are working or not). This is made up of four types of activity, which correspond with the Activity buttons on **vtach** (Driving, Other Work, Available/Waiting, Rest/Break). See below for working day scenario:

The above illustration reflects the below activity:

12am - 6am - REST
6am - 6.30am - AVAILABLE
6.30am - 10.30am—DRIVING
10.30am - 11.15am - REST
11.15am - 2pm - DRIVING
2pm - 3pm - OTHER WORK
3pm - 12am - REST

When the following buttons are illuminated on **vtach**, this corresponds with the activity the device thinks you are currently performing:

Driving: This symbol indicates that the driver is driving the vehicle. Driving is automatically detected by **vtach** when it senses the vehicle moving. The **vtach** automatically switches to Other Work when the vehicle becomes stationary (i.e. in traffic or parked).

If the vtach senses the vehicle moving, you will be unable to switch **vtach**

Other Work: This symbol covers the times when a driver is working but is doing other duties that are not driving. This includes cleaning, maintenance, sitting in traffic and anything that isn't their main role of driving, this may even include working another job that is a non-driving role.

vtach will default to Other Work once the vehicle has stopped. Pressing this button while the vtach key is inserted will put the vtach into 'Other Work' mode.

Available: This symbol indicates when the driver may be "waiting". Examples of this include waiting on a ferry or waiting for others to unload their vehicle. Usually the engine of the vehicle will be off but the driver would be available to resume driving if required.

Rest or Break: This symbol covers when a driver may not carry out any work. Rest is an uninterrupted period when the driver can dispose of their time however they wish and can be a break or as part of their daily/weekly rest periods.

QuickStart to Drive

Follow these steps to drive:

1. Enter **vtach** key into slot
2. Select whether you want to assign time since last key insertion as rest or not.
3. Begin driving (**vtach** will automatically switch to the drive activity mode.

At Key Insertion

1. The light on the end of the **vtach** key will turn orange and the **vtach** will display the Welcome screen which will include basic **vtach** key information (license number and name).

2. After 5 seconds the **vtach** will ask 'Rest until now?' If you begin driving without acknowledging this or hit the back button, then the period it's asking about will be declared as 'unknown' on your activity log and can no longer be changed. Use the right/left arrow keys to change your answer - then press **OK**.

Yes: Confirms that your rest period began when you took your **vtach** key out and continued until the current moment, automatically filling a gap in your activity record with Rest.

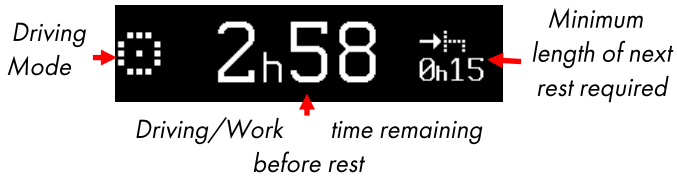
No: You will be asked if you want to 'Add Entry' - selecting 'No' will declare all time since last entry as 'Unknown'. Selecting 'Yes' will lead to manually entering your activities. See section on Manual Activity Entries (page 32).

3. The light on the end of the **vtach** key will turn blue and the **vtach** screen will move the to Ready screen. You are now ready

to drive. Your activity mode selection does not change upon key insertion.

4. The **vtach** automatically detects when you begin driving and therefore will illuminate the Drive button. **vtach's** screen will then display the drive summary screen as shown below:

vtach Summary Screen



Changing Activity Mode

When you need to switch into a different activity mode simply press the relevant activity button (i.e. other work, waiting/available or rest). If you begin driving again, the **vtach** will automatically switch back into driving mode.

Removing the Key

To remove the **vtach** key, simply touch the key until the light on the end of the key turns green. You can now remove the **vtach** key.

Stopping the vehicle

When you stop the vehicle, **vtach** will automatically detect this and switch to other work mode. To tell **vtach** that you are resting press the rest button.

Manual Entry of Activities

When you have performed activities without the **vtach** key inserted you will need to register these activities manually. It is assumed that these activities are registered the next time the **vtach** key is inserted.

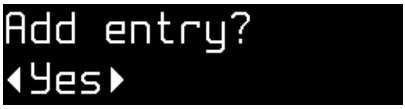
If that period of time has just been Rest, then you can press yes to the 'Rest until now?' prompt upon **vtach** key insertion.

If your time since you last removed your **vtach** key has been filled with something other than just rest (i.e. includes Other Work or Available/ Waiting), you will need to manually enter these activities. This will be done from the time of the last activity working forwards (see below).

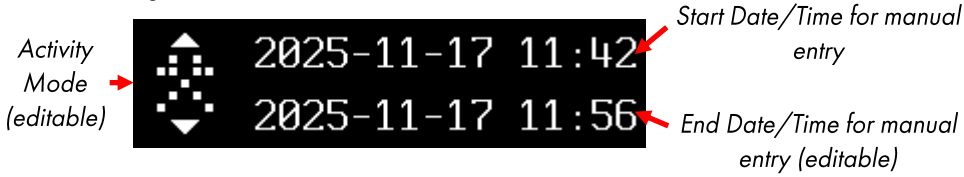
Adding a manual entry:

1. When prompted "Rest until now?" choose "No" and press OK

2. When prompted to "Add Entry" select "Yes" and press OK (choosing "No" will simply take you to the summary screen and log that activity period as unknown)



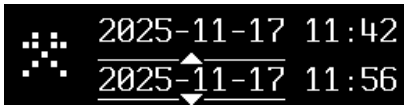
3. If "Yes" to above, you will be taken to the manual entry screen (*see image*).



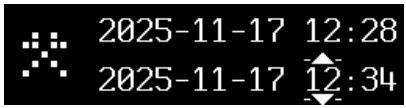
4. Select the activity you wish to add using the up/down arrows.
5. The start date/time at the top cannot be changed (this is the last

time an activity was recorded on that key).

6. Scrolling right will highlight the end date - use the up/down arrow keys to select the date the activity ended.

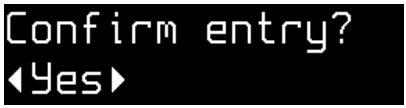


7. Scroll right to edit the time (hour and minute are edited separately).



8. When the correct information for the manual entry has been entered, press OK.

9. You will be asked to confirm the entry - scroll to confirm yes or no, then press OK.



If the end date/time of the manual entry just entered does not bring the activity log up to the present time, you will be prompted to add further manual entries until it does.

If manual entry is ignored

If the manual entry prompts are ignored or declined at any stage, the period since last activity will be recorded as "unknown" on your activity log.

Standard vtach Screens

See below for a selection of screens you will see on the **vtach** if you scroll using the left/right arrow keys.

Current activity time

Shows how long you have been doing your current activity.

Driving time remaining until 15 minute

Shows how much driving time you have remaining before needing to take a 15 minute break.

Driving time remaining until 45 minute break

Shows how much driving time you have remaining before needing to take a 45 minute break.

Rest remaining until driving can restart

Shows how much longer you need to rest before being able to restart driving.

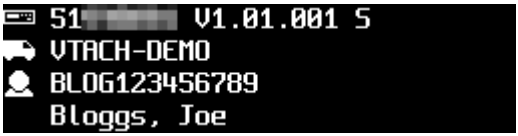
Daily totals

Shows the daily totals for all activity modes (driving, other work, availability and rest).

Weekly totals

Shows the weekly totals for all activity modes (driving, other work, availability and rest).

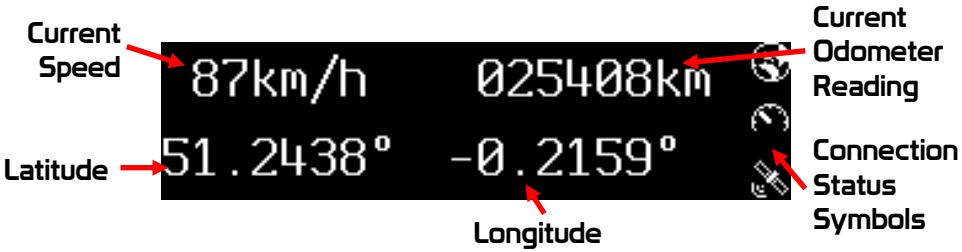
Information Screen



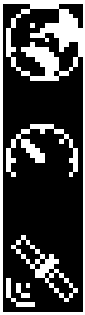
Shows device, vehicle and driver information

Current Vehicle Information

This screen shows a variety of information such as current driving information as well as **vtach** connectivity status.:



Connection Status Symbols



Server Connection: Indicates connection to the server.

Vehicle Speed: Indicates a vehicle connection (i.e. **vtach** is receiving speed data, either from vehicle CAN or from GPS).

GNSS (i.e. GPS): Indicates a lock onto a location satellite.

Connection Issues

If any of the connection status symbols either have an X through it or a line (as shown in this image), this indicates that there is an issue with that connection and you should speak to your administrator.

The Light Indicator Bar

The light indicator bar (**3** on page 4) is made up of 12 light bars, where each light segment represents 5 minutes. It is designed to give a driver an idea of when an event is coming up (i.e. they're getting close to their driving time limit or getting close to being able to drive again after a break).

See below for examples of what the light indicator can show:

Example 1: 4 hours 20 driving time remaining before requiring a 9 hour rest.

Example 2: 35 minutes driving remaining before requiring 30 minute rest (7 green blocks indicating the 35 minutes).

Example 3: 27 minutes driving remaining before requiring 30 minute rest (5 green blocks indicating 25-30 minutes).

Example 4: Driving break due in less than 15 minutes (two green blocks indicating 10-15 mins remaining).

Example 5: Driving break due (all blocks red indicating break required immediately).

Example 6: 45 minutes rest remaining before being able to drive 4.5 hours.

Example 7: 29 minutes rest remaining before being able to drive 4.5 hours.

Brightness Adjustment

The **vtach** uses the light sensor on the front of the device (number 6 on the product diagram on page 4) to automatically adjust the brightness of the screen and buttons.

Light Sleep Mode

If the **vtach** is not in driving mode, has had 10 minutes without a mode change or 1 minute without a button being pressed, it will switch to light sleep mode where the screen and lights will turn off. To wake the device, press any button or begin driving.

Deep Sleep Mode

If the **vtach** is in Light Sleep mode and the vehicle ignition is turned off, **vtach** will switch to Deep Sleep Mode after 10 minutes (if enabled).

Alerts

There are a number of alerts that **vtach** will give depending on different situations. Most alerts concern driving and working time rules.

All alerts will be accompanied by a short audible alarm.

The most common alert may be **Driving without key.** If the **vtach** senses that the vehicle is moving and there is no **vtach** key inserted, you will be alerted. To dismiss this alert, you either need to insert a key or you will need to acknowledge this alert by pressing OK.

Driving and Working Time Alerts

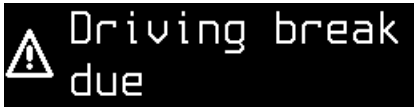
The **vtach** will give you alerts when you are close to requiring a break from driving or working. This will concern the relevant time periods that the rules apply for (i.e. current, day, week etc.).

ALERT - Driving break due in less than 15 minutes

Driving Break due in less than 15 minutes. This will also be indicated with the light indicator bar (with only two blocks remaining green, the rest being red) See Example 4, page 36.

Action: You should prepare to stop your vehicle and rest for at least the defined period.

ALERT - Driving break due



Your driving break is due. The light indicator bar will also show this by all being red. See Example 5 on page 37.

Action: You should stop driving - this will automatically change the mode to 'Other Work'. You will either need to remove your key (and declare Yes, to Rest is Now prompt upon re-entry), or press the 'Rest' button. You will also need to acknowledge the alert by pressing OK.

ALERT - All other alerts

All other alerts follow the same pattern as the Driving Break alerts (i.e. an alert 15 minutes before a break is required and another when a driving/ working limit has been reached). See the list of alerts below:

Daily Drive

Daily drive < 15 min left

Daily drive limit reached

Daily rest in < 15 min

Daily rest due

2 Week Drive

2 week drive < 15 left

2 week drive limit reached

Weekly Drive

Weekly drive < 15 left

Weekly drive limit reached

Weekly rest in < 15 min

Weekly rest due

Working Time

WT break in < 15 min

WT break due

Weekly WT < 15 left

Weekly WT limit reached

Daily Driving Limits & Breaks

vtach operates based on the EU drivers' and working hours regulations and is designed to help drivers and employers keep a track of the hours worked, ensuring adherence to these regulations.

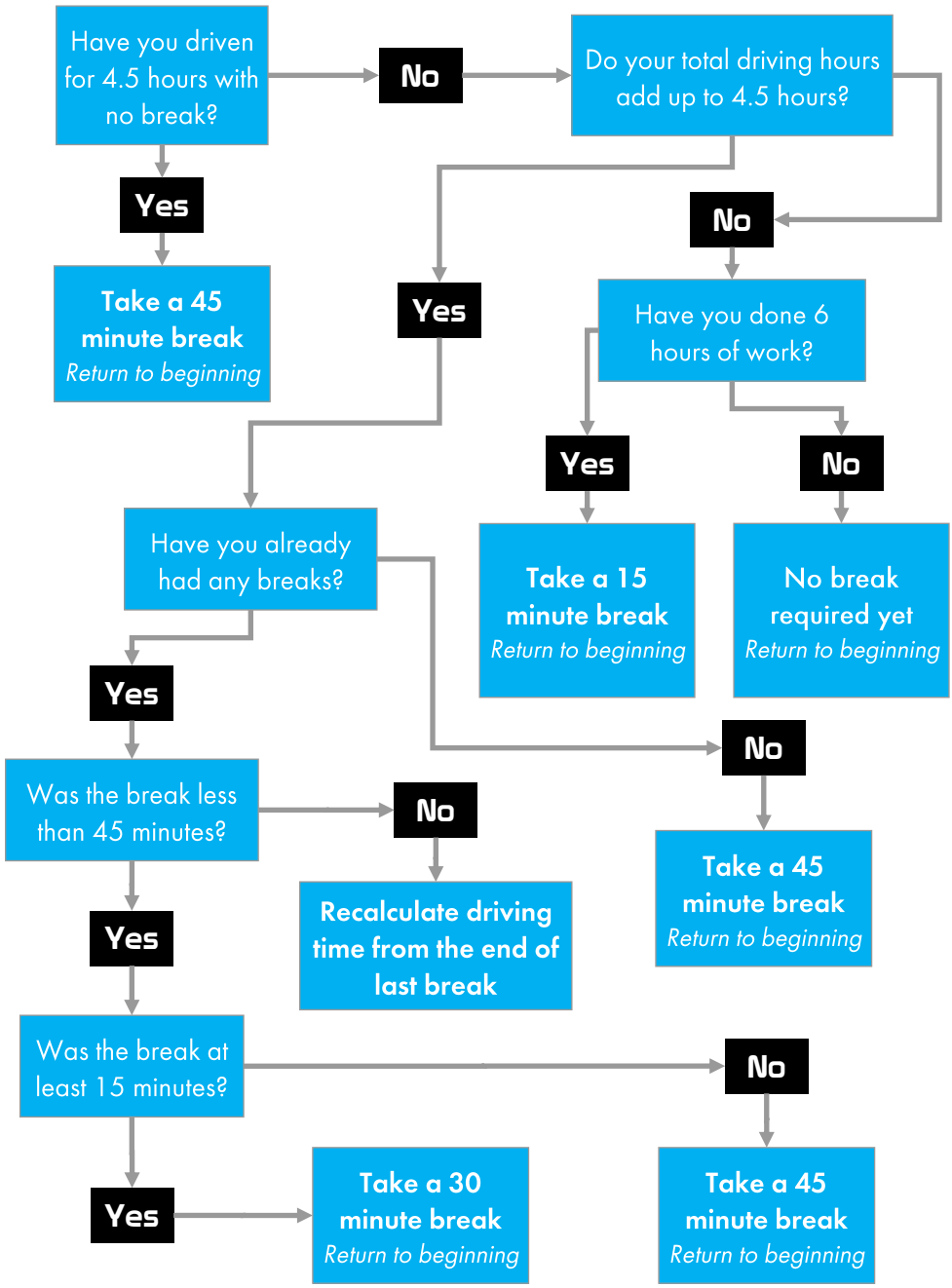
For information on the EU rules for drivers' hours, please visit the following websites:

UK Department for Transport

Europa.eu

For a simple guide to when a driver needs to take a break, please see the flowchart on page 41.

Do I need a break yet?



GPSR Information

Tachosys, as a manufacturer which exports to the European Union, are compliant with GPSR legislation. Please contact enquiry@tachosys.com for issues or queries on product safety. To view Certificates of Conformity (CE) for our products, please visit www.tachosys.com/certificates.

TACHO·SYS

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