iPad Bluetooth connection to v2track tracker for v2Connect app – Instructions

Version 1.0 Revision 1 – December 23rd 2014

MAC Address Authorisation

As a security feature the v2track tracker does not allow unauthorised Bluetooth devices to connect to prevent access to your private messages and tracking details.

There are two ways to add new devices: MAC Address added through tracker USB LCD screen and automatically synchronising authorised devices from v2track website.

MAC Address added through tracker USB LCD screen

If you purchased the optional USB LCD screen to go with the tracker you can authorise Bluetooth devices directly in the aircraft or vehicle by navigating to the page named "**Bluetooth Dev Pair**" a few pages left of the main home page. When the LCD is on this screen you can try to pair a new iPad and the tracker will detect this and add the MAC address to the authorised list stored locally on the tracker. Note that the iPad may say the pairing fails but you should see the manually added count increment on the tracker if it has not already been paired once before. Then you can try again and it should pair. See pairing details further below for more information.

It is suggested to use the automatic sync method for fleet operations as this means the fleet manager does not need to go around to each aeroplane/vehicle and add the devices manually. Also were a tracker to ever need to be replaced the manual sync will need to be done again whereas the automatic sync from the website would set things up on a new tracker without any interaction.

Automatically sync authorised devices from v2track website.

Before you can automatically sync the Bluetooth MAC addresses to the tracker you need to find out what the MAC address of the iPad is.

Obtain iPad Bluetooth MAC address

On your iPad navigate to the "**Settings**" page (cog/gear wheel) and select the "**General**" option in the left list of options.

Then choose "**About**" in the right panel and it will give you a list of details one of which is the named "**Bluetooth**" and which is the Bluetooth MAC address.   This MAC address is six pairs of hexadecimal numbers such as "01:1B:DF:04:BC:F1". Please write these down for reference.

Add MAC address to sync list on website

Once logged into the v2track website navigate to the "**Admin**" tab and click on "**Configure Bluetooth Devices**". *Note that if you do not see these options you will need to get your companies v2track administrator to do this for you as they have restricted you from having access to this function.*

You next need to decide if you just want the iPad authorised for a specific asset in your fleet or if it would be better to allow the iPad to be able to be connected to other assets in your fleet as well. For instance you may have an iPad that predominantly is used in one aircraft but perhaps it may be used in another aircraft in your fleet occasionally if another iPad has an issue or the pilots mix up which iPad goes in which aircraft. In this scenario it would make sense to sync either across the entire fleet or the group of aircraft from a particular type or base rather than only allow access to a specific aircraft.

Then to add the MAC address you click on "**new**" and type your name (or iPad name) into the **"Device Name"** field and the MAC address into the "**MAC Address**" field. Make sure it is set to active and then click "**Add >>**". If you have copied and pasted the MAC address in the "**Add >>**" button may not become active so just manually delete the last digit and retype it and then the MAC address validation will succeed and enable the "**Add >>**" button.

Once added the MAC addresses will automatically sync with the tracker a few minutes after powerup as long as there is a cellular connection available. You can check if the list is synchronised by looking that the Bluetooth page on the USB LCD and it will show the names of your synced devices. The page is a few pages to the left of the main home screen and named "**Synced BT Devices**".

iPad pairing to v2track tracker

Once the MAC address is authorised you can proceed through the pairing stage.

On the iPad navigate again to the "**Settings**" application and select "**Bluetooth**" from the list on the left hand side. Assuming Bluetooth is switched on you will see the iPad searching for new devices and the tracker's name should appear in the "**OTHER DEVICES**" list with a name like v2trackV5-PlaneXYZ. Click on this and you should get a dialog box appearing in which you can type the pin code. By default the pin code is "**0000**" which you can check on the USB LCD if you wish but if you want you can request that v2track changes it for your company via remote command. Once paired the tracker will appear in the "**MY DEVICES**" list.

iPad connection

Unfortunately Apple does not allow us to initiate the Bluetooth connection to the tracker from the v2Connect app itself as we are able to do in our Android and Windows apps and so you need to manually activate the connection before running the v2Connect app.

So to do this navigate once again to the "**Settings**" application, select "**Bluetooth**" and then click on the tracker name from the "**MY DEVICES**" list to connect. Once you do this if everything is working and it connects you will get the chain link icon up in the top left corner.

This icon looks like this:

Unfortunately unlike Android and Windows the iPad will automatically close the connection if you do not start using it quick enough and so depending on the iPad and iOS version you have between 20 seconds and a minute or so to launch the v2Connect app or the iPad will close the Bluetooth connection presumably for power saving reasons. However once you have launched the app and used the connection a little you are free to close the app or go and do other things on the iPad and the connection will not close.

Our suggestion is to have the v2Connect app on the same page as the Settings icon on your iPad so you can quickly open the connection and launch the app without having to scroll through pages of your apps.