Bowmonk

INCORPORATING **TAPLEY** INSTRUMENTATION

Bowmonk Connected
User Guide

Software Release 3.0 – February 2021

Contents

Professional Install Service

ONLY
£30
+VAT

Don't have the time or experience to install the software?

ONE OF OUR EXPERIENCED TECHNICIANS WILL HAVE YOU CONNECTED IN NO TIME

TO BOOK YOUR INSTALL CALL US TODAY *01603 485153*

Before we start:

The computer that you want to install our software on **MUST**:
- be running **Windows 7** or **later** (Both 32-Bit and 64-Bit versions are supported).
- Have a reliable connection to the internet.
- Have at least one USB port available for use.
- Be 'Up to date' with the latest security updates from Microsoft *(Please execute a Windows Update if you are not sure if you are up to date)*

Chromebooks, Apple Macs, Android tablets and iPads are not supported

The site AE or Site Manager will need to be present/available as there is a file, known as a 'key', that can only typically be requested from their MOT account.

If your computers are ran by an IT company, please ensure you have access to the **admin username and password** as this will be needed to proceed with the install. If you do not have this, your IT company will need to install the software for you.

## Installing Bowmonk Connected:

To download the software installer, you will need to head to the following website: ***www.bowmonk.com/mts***

Then, click on **'Download the Latest Software Installer'**. This should start the download for the software.

Open the download by double clicking it, you should now have a window open with the following files displayed
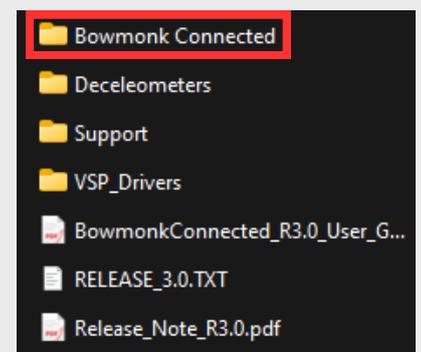

Double click on the folder at the top named **Bowmonk Connected**, then double click on **'Setup.exe'**
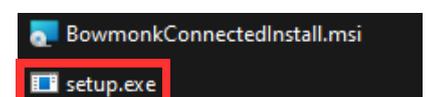
The pop-up below may appear. If it does, click on **'More info'** then **'Run anyway'**.
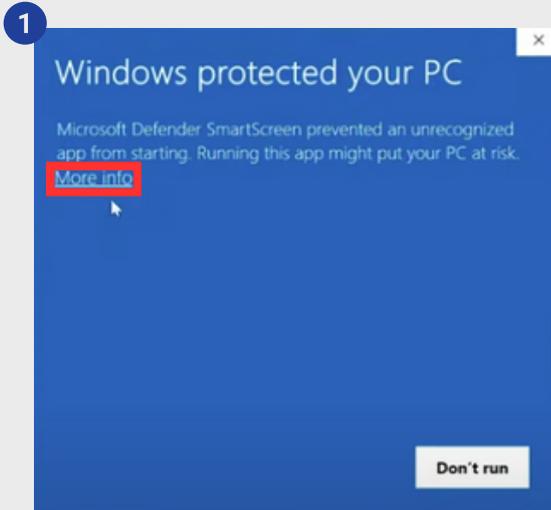

The software installer should now pop up, you will now need to click **'Next'** twice.
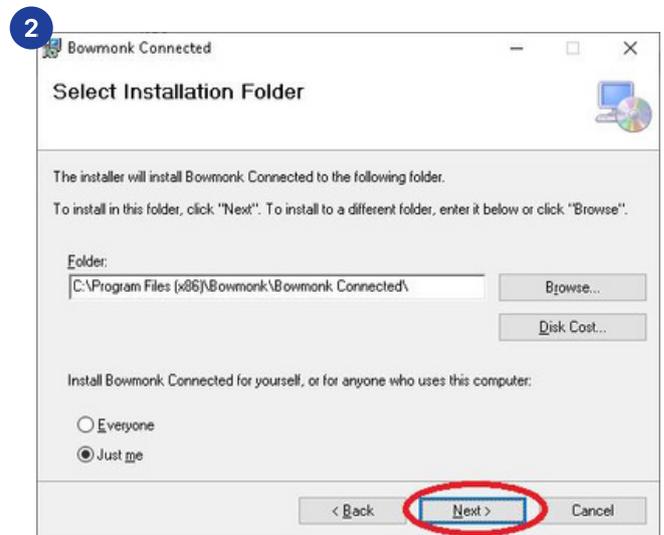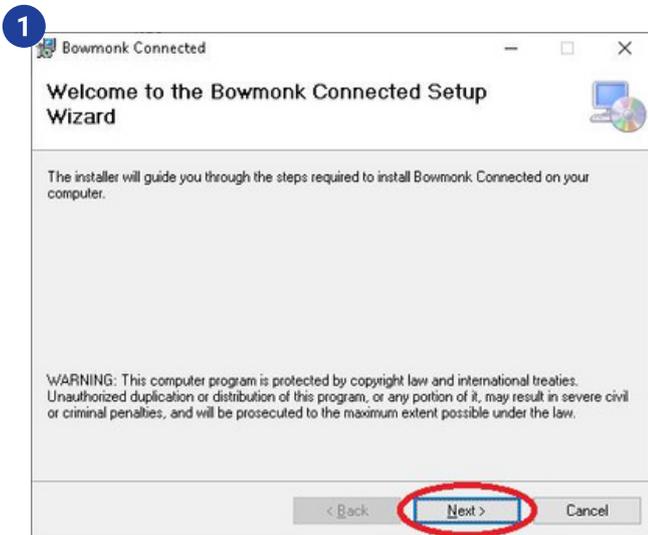

There will then be a prompt pop-up like so:

Please click **'Yes'** to this prompt.
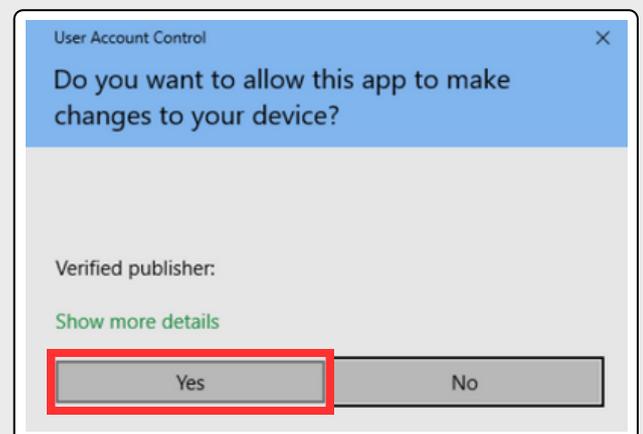
If your computers are ran by an IT company, you may need them to enter the **username and password** now. Please do so and then click **'yes'** to this prompt ➡️
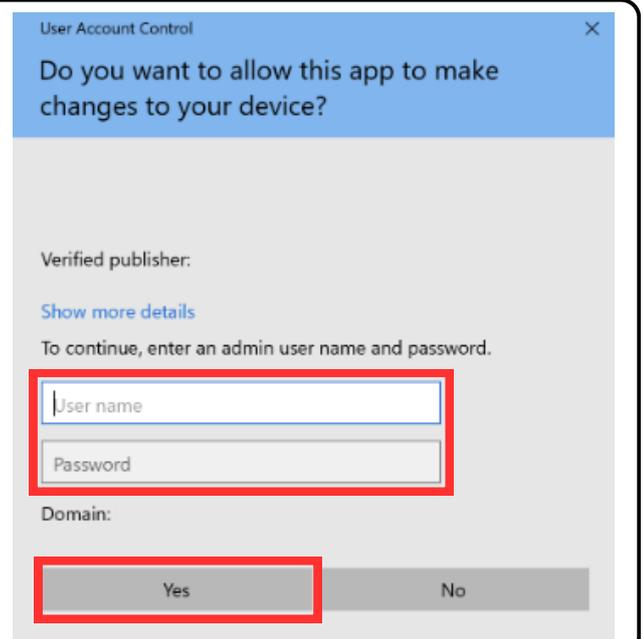
After this, you should now see the **'Installation Complete'** pop-up. Click **'Close'**.
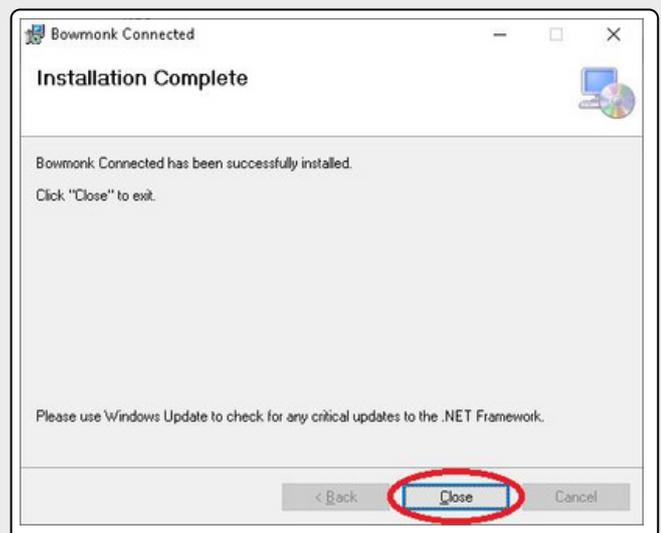
Now if you look at your desktop screen, you should see an icon like so
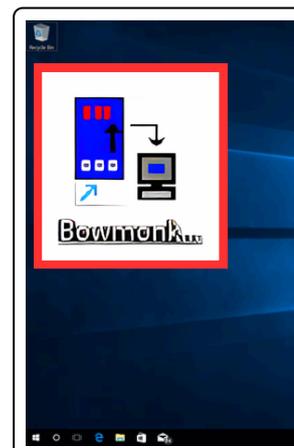
If you **don't** have a desktop shortcut, **read** the next page on how to create one. If you **do** have a desktop shortcut, **skip** the next page and continue on the 'Requesting the Key file' page.

Creating a desktop shortcut for Bowmonk Connected

Right click in the open space on your desktop. Select **'New'** from the menu, then click **'Shortcut'.**
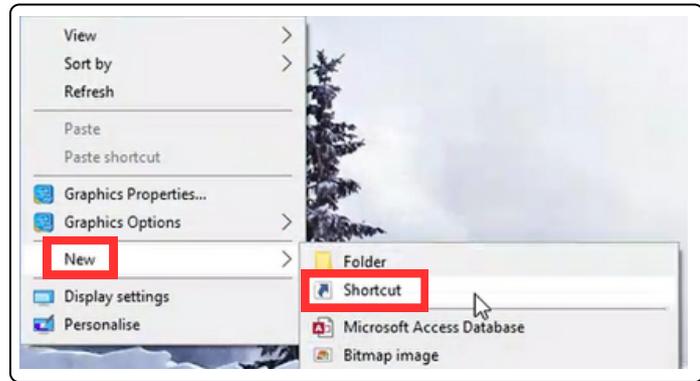
When you see this pop-up, click **'Browse'**.
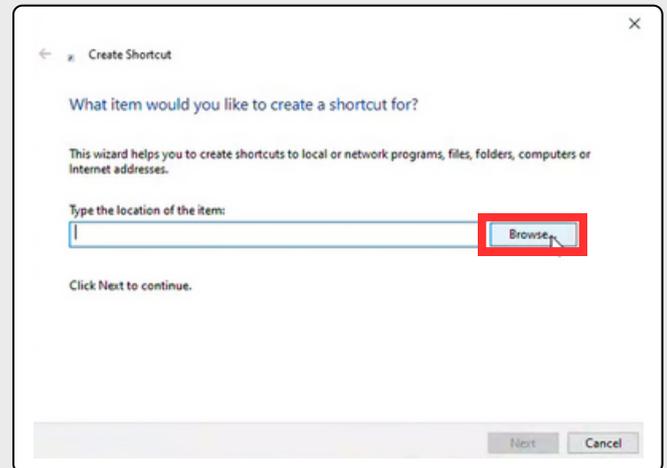

You will now see this box on your screen.

Click through the folders in the following order:
'This PC' > *'Local Disk (C:)'* > *'Program Files (x86)'* > *'Bowmonk'*.
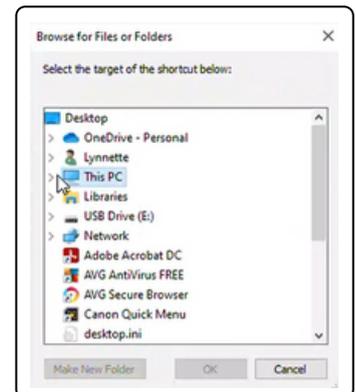
Then select **'BowmonkConnected.exe'** that has an icon and click **'OK'**, **'Next'** then **'Finish'**.
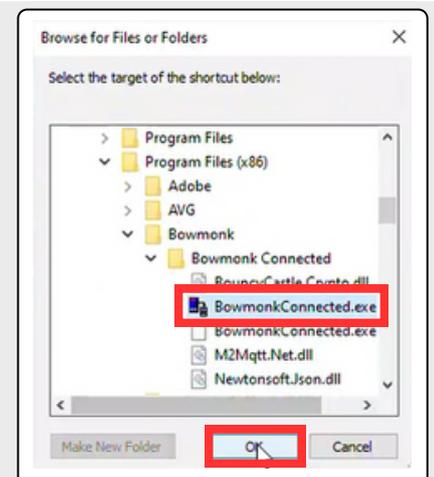
You will now have a Bowmonk Connected shortcut on your desktop.

Requesting the 'Key' file

To request the Key file, ensure you are the Site Manager or Site AE and login to your MOT system: *https://www.mot-testing.service.gov.uk/login*

MOT testing service

Sign in

User ID

Password

Sign in help

Unable to enter security code
Don't have an account

Forgotten your password?

Sign in
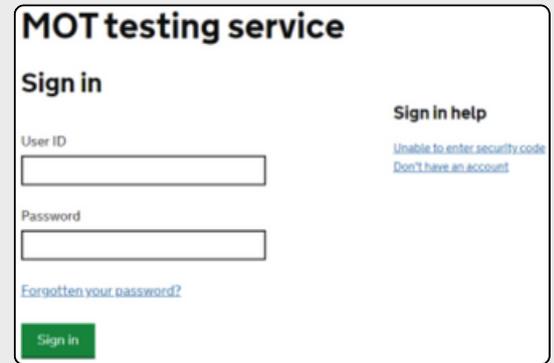
Once you are logged in to the MOT system click your Company Name on the right side of the screen.

Company Name Ltd

Authorised Examiner number: A000000

Your vehicle testing stations

(1234AB) Your Company Name
SITE-ADMIN, SITE-MANAGER, TESTER
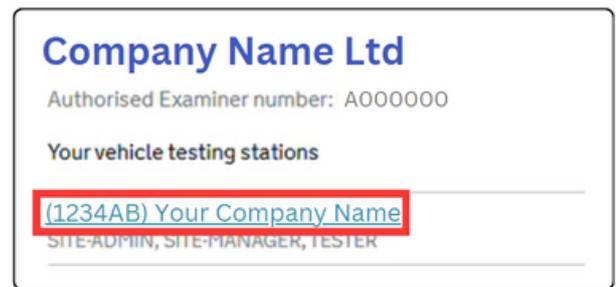
Scroll down and look on the right-hand side of the screen again for the **'Change and connect equipment'** section. Under this section, click on **'Request a key'**.

Change and connect equipment

Change testing equipment

Request a key

View site keys
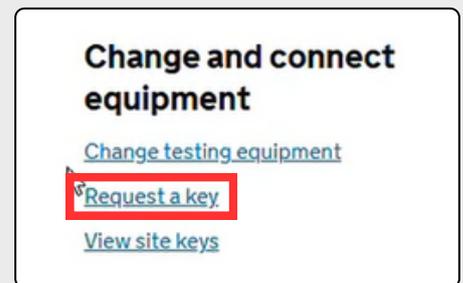
Click **'Start now'** to begin requesting your key.

Request a key
Request a key for your connected equipment

Use this service to request a key if you:

- upgrade or replace existing equipment
- connect existing equipment
- add new connected equipment
- have lost a previous key

Only class 4, 5 and 7 Vehicle Testing Stations need to connect equipment to the MOT testing service and need to get a key.

Make sure you have an up-to-date email in your profile. We will use this to send you the key.

Start now >

When on the **'What equipment do you need a key for?'** page, please select **'Decelerometer'** and click the **'Continue'** button.

Request a key
What equipment do you need a key for?

○ Roller brake tester
◉ Decelerometer
○ Exhaust gas analyser
○ Diesel smoke meter
○ Combined emissions tester

Continue
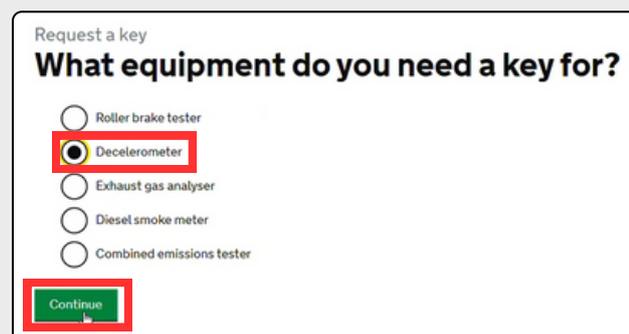
After you have requested the key, on this page please click **'Return to Vehicle Testing Station'**.

You have requested a key

What happens next

It can take up to a minute to create your key.

You will need to give the key to the engineer when they are installing your equipment.

You can find your keys on your VTS Overview under 'View my keys'.

You must only share this key with the engineer installing your equipment.

Return to Vehicle Testing Station

Now, after a minute or two, click on **'View Site Keys'** which will be under the same section as 'request a key' from earlier *(Generating the key takes up to 2 minutes to complete)*.

Change and connect equipment

Change testing equipment

Request a key

View site keys

Once the key has generated, check it is a decelerometer key and has todays date. Then, click the 'Email me the key' link on the right side.

Name	User	Created	Status
Roller brake tester - 123456-D	TEST1234	5 Mar 2021	In use
Combined emissions tester - 123456-C	TEST1234	27 Sep 2022	In use
Decelerometer - 123456-B	TEST1234	4 Nov 2024	Email me the key
Decelerometer - 123456-A	TEST1234	29 Mar 2021	In use

Now check the email address it will send the key file to is an email that you have access to. After this, click the **'Engineer is on site'** button to get the email sent to that email address.

Is there an engineer on site?

We will send the key to YourEmail@example.com

If you do not have access to this email, you can change your email address in your profile.

Engineer is on site - send me the key

Cancel and return to Site keys

After this, you will have **'We have emailed you your key'** on your screen.

We have emailed your key

We have sent your key to YourEmail@example.com

What happens next

Open the email and download the attached folder, which contains the key.

You'll need to share the folder with the engineer when they are installing the equipment.

Do not share the key with anyone else.

I did not receive an email

Return to Site keys

Saving the 'Key' file to the computer

Log into your email on the computer or forward the email to an email address you can access on the computer and open the email which will be from the DVSA and title **'Site Key'**.

Save the key file that is attached to the email to your downloads/documents folder.
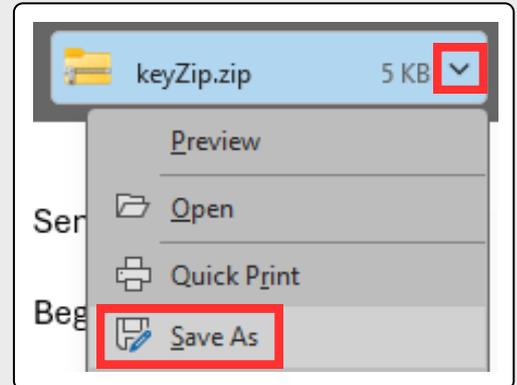
Open your downloads/documents folder and find where you saved the key file. Right click on the key file, then click **'extract'/'extract all'**.
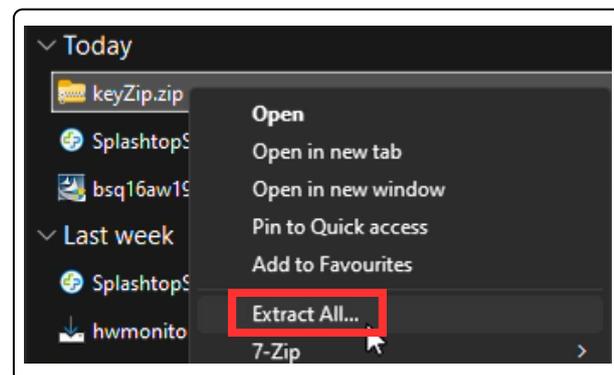

A pop-up will appear, please click **'Extract'** in the bottom right.
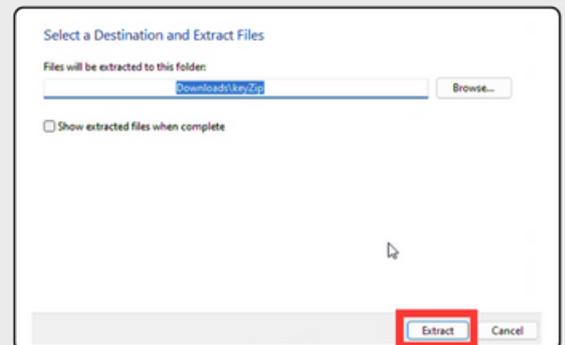
You will now be asked for a password. This will be the User ID from the MOT login we used to request the key (e.g. **TEST1234**). Enter your user ID in capitals.
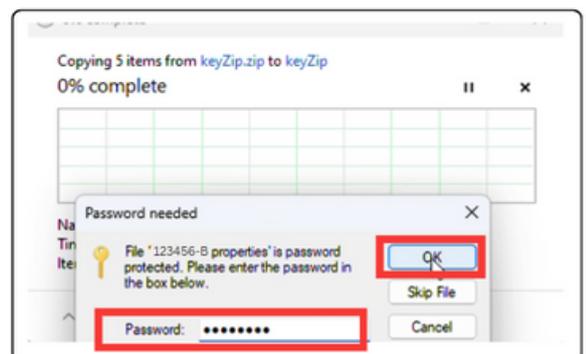

You will notice that after extracting this key, a new folder will appear. This is the one we will use for Bowmonk Connected.
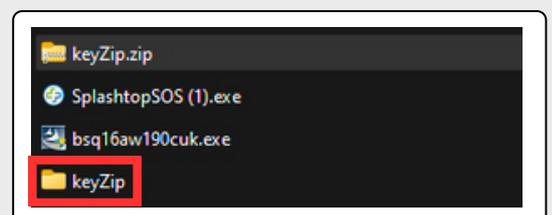
# Inserting the 'Key' into Bowmonk Connected

Open Bowmonk Connected by double clicking the desktop icon. Now click **'File'** in the top left corner of Bowmonk Connected, then **'Settings'**. The **'Application Settings**' box will then open.
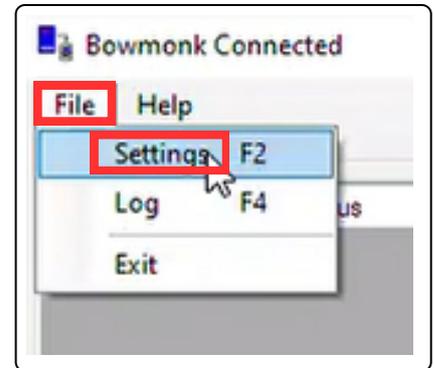
Under the **'MTS'** section, to the right of the first box called **'Client Id'** there will be a **'Reset'** button. Click this **'Reset'** button then navigate to where the extracted key file folder is saved.
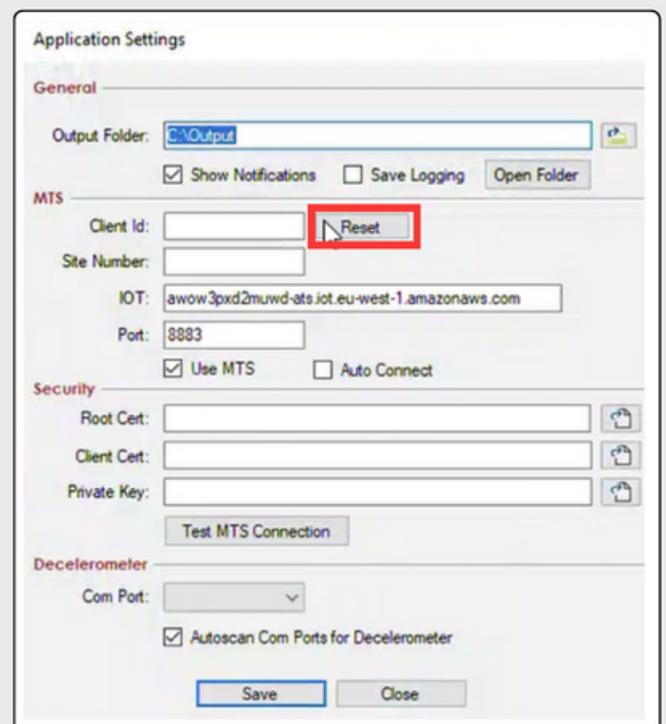
Double click the key file folder. Inside the folder should only be one file. Click on this file to select it and then click the **'Open'** button in the bottom right corner.
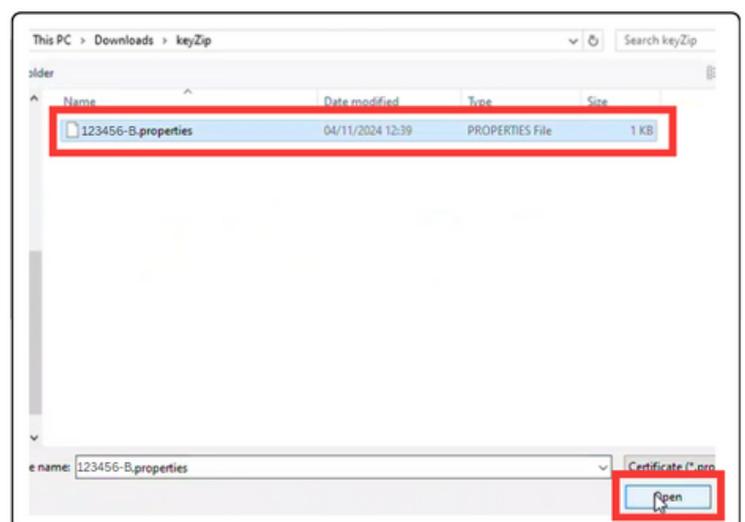
In the bottom of tMTS section will be an empty tick box labelled **'Auto Connect'**. Click the empty box so there is a tick mark inside, then click **'Save'** at the very bottom.
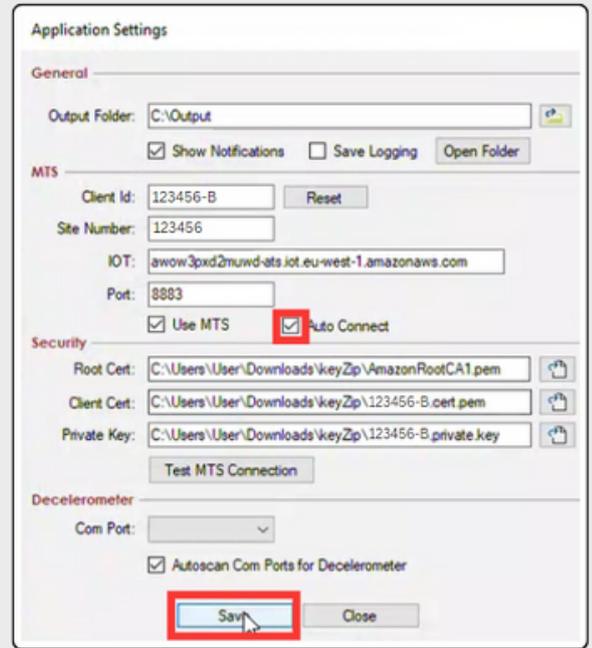
Now click the **'Connect to MTS'** button in the bottom right corner of Bowmonk Connected.
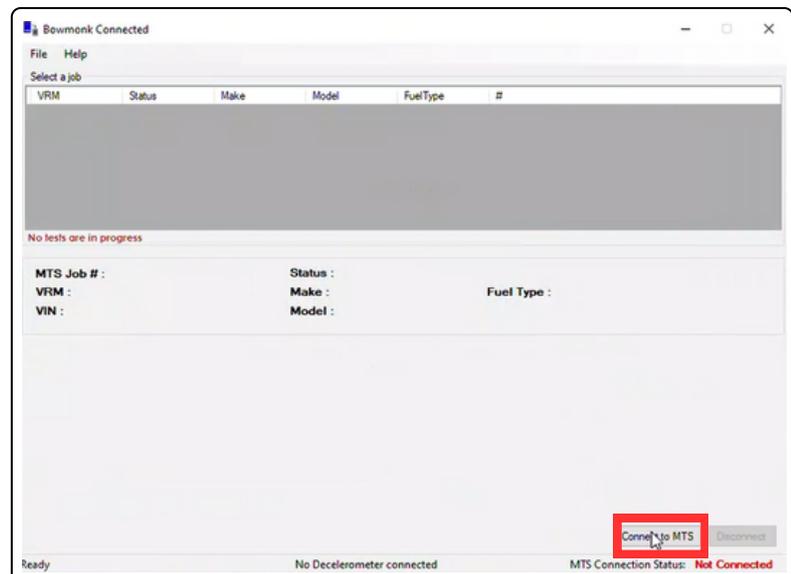
In the bottom right corner, you should now see **'MTS Connection Status: Connected'**.

Now when you plug your decelerometer into the computer, turn it on then open Bowmonk Connected, you should see **'Decelerometer Connected'** in the centre at the bottom of the program.
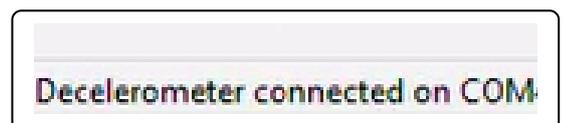

Bowmonk Connected is now set-up and ready to be used to submit your results.

How to use Bowmonk Connected

Plug your decelerometer into the computers USB port and turn it on so it displays 'Sbr'.

Then, open Bowmonk Connected. You should see **'Decelerometer Connected'** in the centre at the bottom of the program and **'MTS Connection Status: Connected'** in the bottom right.
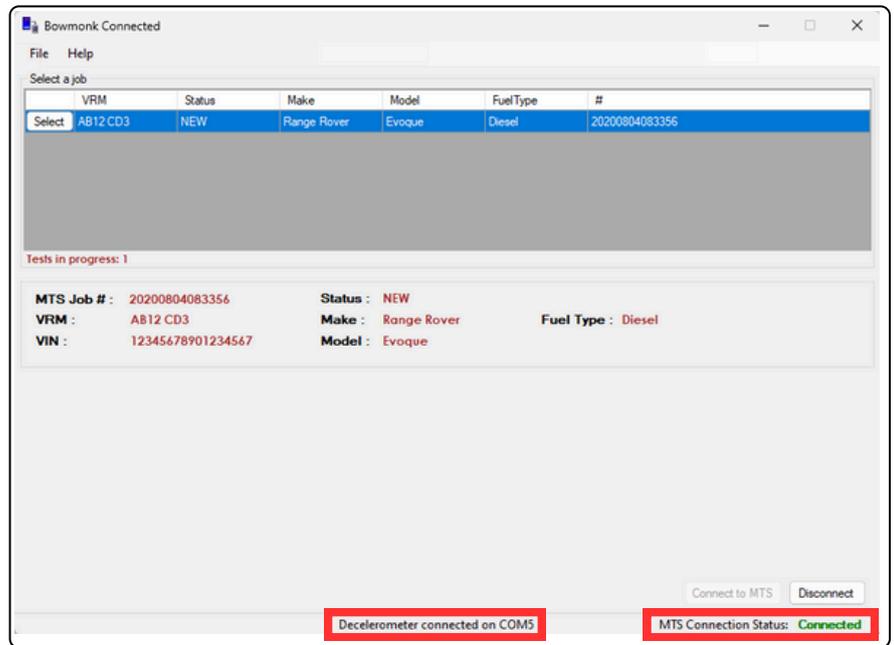
Click **'Select'** next the vehicle you are submitting results for.
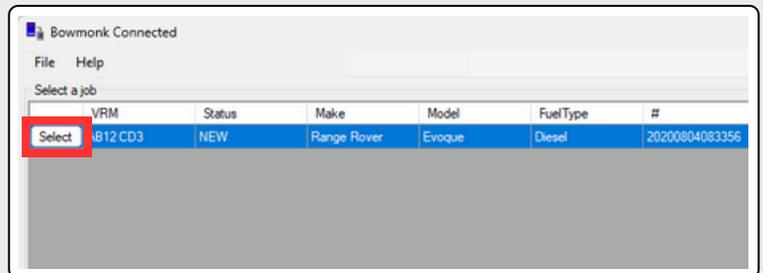
On this page, there is a box for 'service Brake Tests' and a box for 'Hand Brake Tests'. If you want to send a result for both tests, make sure both of the boxes are selected by clicking them. If you only want to send a Hand Brake Test result for example, only select the box for the Hand Brake Test.
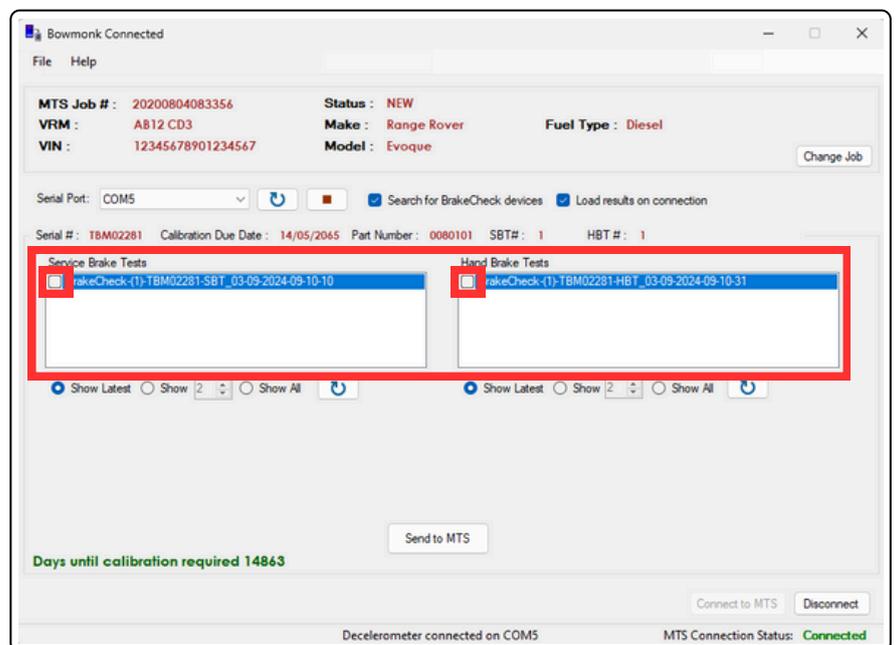
When these are selected, the result for each test will be shown underneath.
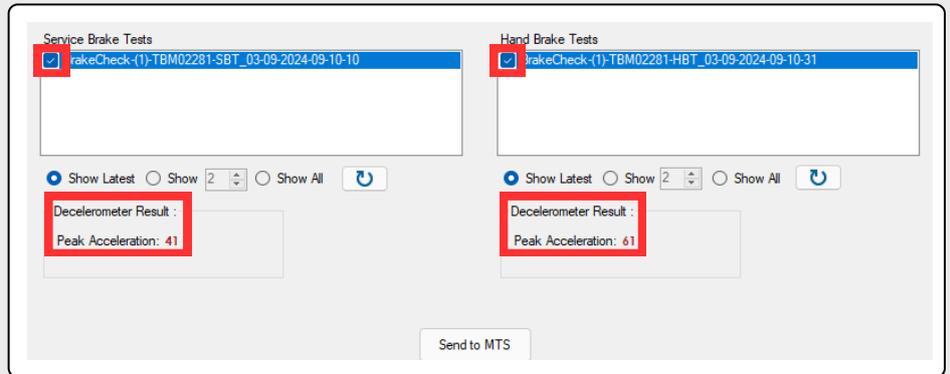
To submit the results, click the **'Send to MTS'** button.
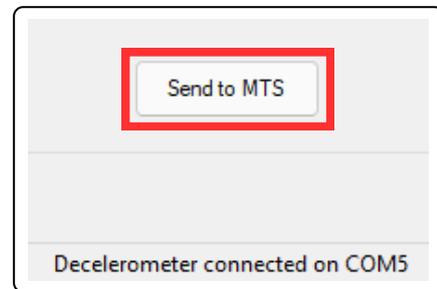
Your results have been submitted. Click **'OK'** to this dialog box and close Bowmonk Connected.

Published

The data has been sent to the MTS.

OK
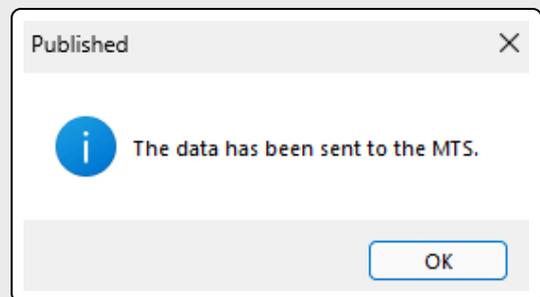
Once you have sent the necessary decelerometer results to the MTS, log in to the MTS using your Web Browser and the brake test results will be filled in.

You should always send your results with Bowmonk Connected **before** logging into the MTS to complete the test.

Need more training on your Decelerometer or Bowmonk Connected?
You can watch our YouTube tutorials:

How to use Bowmonk Connected

How to use our BrakeCheck

How to use our Tapley EBM Brake Tester
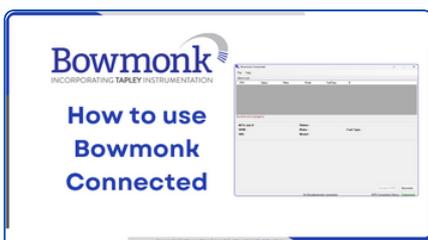
Notes for I.T. / Network Professionals

IPv6 Information
- Bowmonk Connected is IPv6 capable, and will prefer IPv6 over IPv4 if available. As a result, the AWS host identified in the DVSA-Issued properties file / IOT setting MUST be reachable over IPv6 from your internal network, i.e. your WAN interface(s) and policies must support E-T-E routing of IPv6 over the public internet.
- Some 'dual stacked' sites use routed IPv6 internally, but not externally. In this situation it is usually necessary to unbind IPv6 from the network adapter(s) used by the machine hosting Bowmonk Connected, or configure E-T-E routing of IPv6.

Firewall Information
- Bowmonk Connected establishes connections to the MTS service access point declared in the individual DVSA Key packages. This usually results in Bowmonk Connected establishing TCP connections to <hostname>.amazonaws.com port 8883. Please ensure client traffic (Both IPv4 and IPv6 if required) is permitted to reach the external MTS SAP.
- TLS SNI is in use, so the host addresses returned to the host name lookup are many and variable.

Installation method and platform information
- Installation using the MSI only is possible, but this bypasses the OS/.NET compatibility checks performed by Setup.exe.
- Current support is limited to Windows 7, 8, 10 or 11 (32 or 64 bit) with a minimum of .NET 4.6.

Certificate handling
- It is mandatory to use a DVSA 'Key' package dedicated to Bowmonk Connected/Decelerometer use. Do not use Keys allocated to other operating items of equipment due to the inherent connection pre-emption at MTS/AWS. A common symptom of this 'certificate duplication' is that devices appear to randomly and autonomously disconnect and/or re-connect to MTS.
- Once the installation is commissioned and tested, no Key data needs to remain on the host machine filesystems.
- The unique Key data for each installation will be required again during any upgrade to Bowmonk Connected or machine/OS replacement. Please ensure any backups of the Key data and its associated password are held according to both the DVSA's and your own security policies.

Visit our website at **www.bowmonk.com**
for additional information and support

TO BOOK YOUR INSTALL CALL US TODAY **01603 485153**