



# M1 User Level Security Configuration

### ▶ TABLE OF CONTENTS

- ▶ Overview.....2
- ▶ Password Or Key File?.....2
- ▶ Setting a Security User .....3
- ▶ Password on Offline Packages.....7
- ▶ Using a Key File.....5
- ▶ Removing a Security User .....7

## ► OVERVIEW

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It is often necessary to add a Password to an M1 ECU to protect the calibration from being changed by unauthorised people. This document describes adding a single user Password or key to an M1 package. This document does not cover the full use of the M1 security system(s).

## ► PASSWORD OR KEY FILE?

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A Password is the simplest form of security as it simply needs the password to be used from the memory of the tuner. The downside of a Password is that it can be forgotten or accidentally passed on but it is the simplest way of keeping the ECU secure.

A Key file is an actual data file that must be available on the laptop to be able to unlock the ECU. This key file is a much higher level of security. The downside of a Key file is that as a data file it can be accidentally deleted and is not something that an individual can commit to their own memory.

Keys also need to be made available to M1 Tune through a locally accessible directory or drive on the laptop that is used to connect to the M1, this can restrict their usage when used for remote tuning and support as it opens the key file up to being copied by the end user. Passwords can be entered over a remote connection, but are also at risk of being captured by keystroke capture utilities running on the local laptop.

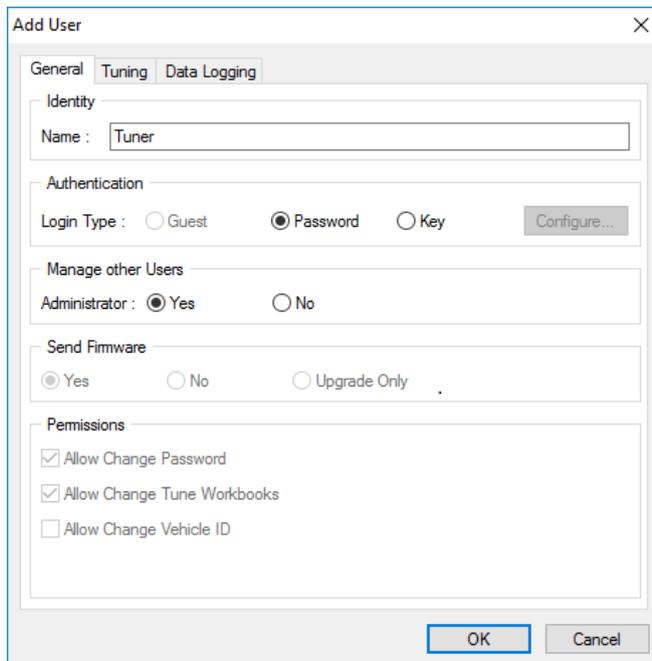
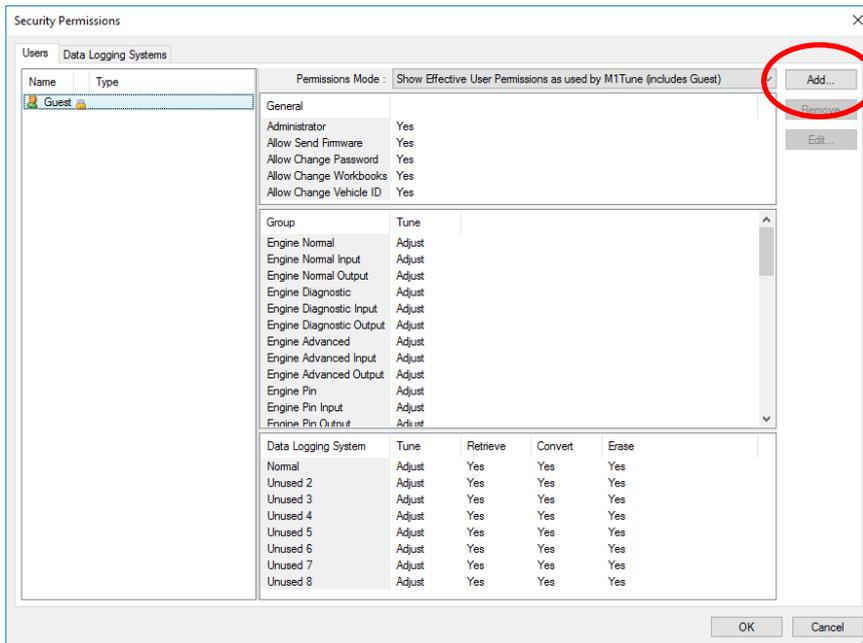
In either case the type of security must be looked after responsibly.

**NOTE:** Once a package is locked with a Password or Key File it is locked on the laptop as well as in the ECU hardware. Simply put you will not be able to open the package offline on the laptop without the password or Key File. There is NO POSSIBILITY of retrieving a laptop saved package or ECU access to a package if the Password is forgotten or the Key File is lost. MoTeC have made it so no backdoor access exists.

## ▶ SETTING A SECURITY USER

As delivered all MoTeC M1 packages have a Guest user which allows anyone to connect to a package without the need for any security access. When adding a password, the tuner is effectively taking all access away from the Guest user and transferring it to themselves with the addition of security in the form of a Password or Key File.

Open the ECU in M1 Tune and go to Online – Edit Security Permissions and click Add on the right-hand side.



The tuner can add a relevant name to the “Name” box. Under Authentication the user can decide to use a simple Password or a Key File. It is recommended to use the Password option to start with until the user is familiar with the security system.

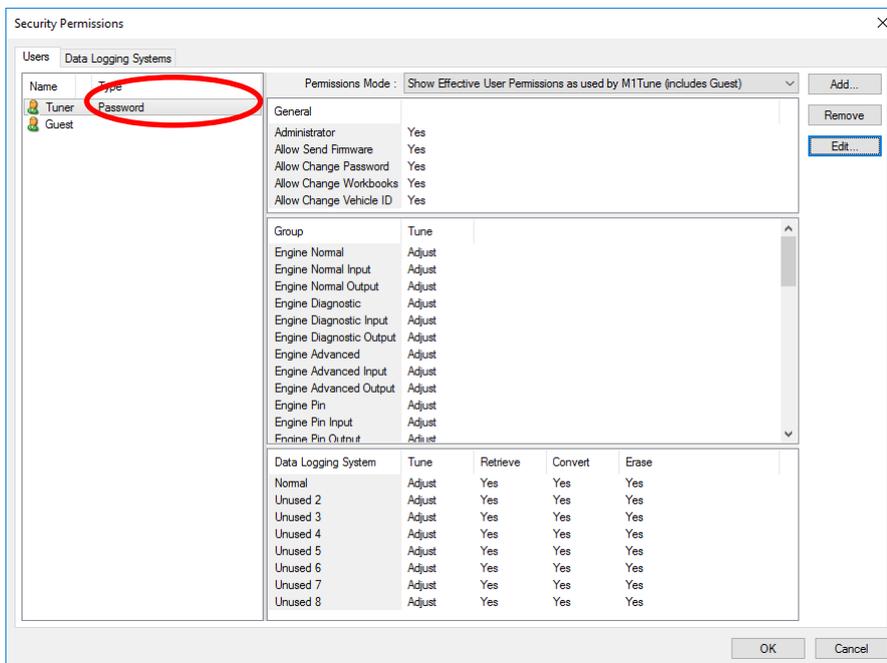
As this security user is the first one to be added they **must** be set as an “Administrator” under the Manager Other Users heading. This will automatically give the new security user complete control of access to the ECU and package.

Next click “OK” and the Change User Password box will appear. The new Password will need to be entered twice.



A dialog box titled "Change User Password" with a close button (X) in the top right corner. It contains two text input fields: "New Password :" and "Confirm Password ;". Below the fields are two buttons: "OK" and "Cancel".

The new security user will now appear in the list with the relevant accesses shown in the middle boxes. As an Administrator, all items should be set to “Yes” or “Adjust”. This will be done by default when the user is created with Administrator rights.



The "Security Permissions" dialog box is shown with the "Users" tab selected. A table lists users: "Tuner" (Type: Password) and "Guest". The "Tuner" user is highlighted with a red circle. To the right, a "Permissions Mode" dropdown is set to "Show Effective User Permissions as used by M1Tune (includes Guest)". Below this are three sections of permissions:

General	
Administrator	Yes
Allow Send Firmware	Yes
Allow Change Password	Yes
Allow Change Workbooks	Yes
Allow Change Vehicle ID	Yes

Group	Tune
Engine Normal	Adjust
Engine Normal Input	Adjust
Engine Normal Output	Adjust
Engine Diagnostic	Adjust
Engine Diagnostic Input	Adjust
Engine Diagnostic Output	Adjust
Engine Advanced	Adjust
Engine Advanced Input	Adjust
Engine Advanced Output	Adjust
Engine Pin	Adjust
Engine Pin Input	Adjust
Engine Pin Output	Adjust

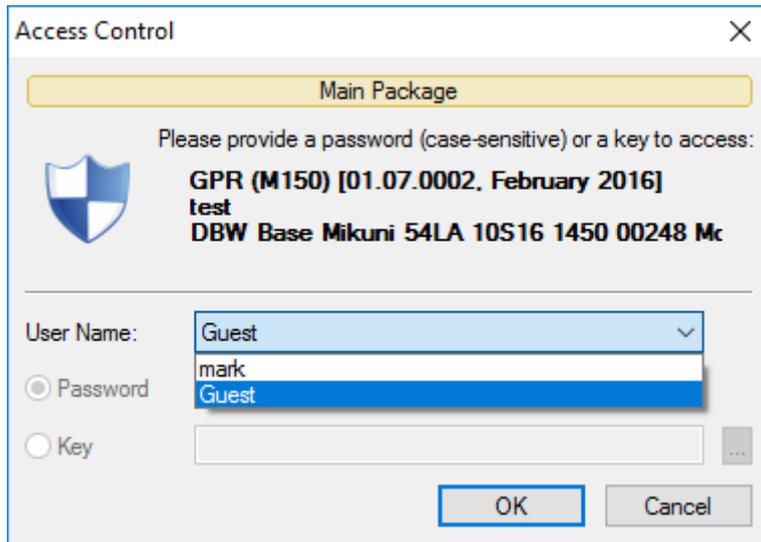
  

Data Logging System	Tune	Retrieve	Convert	Erase
Normal	Adjust	Yes	Yes	Yes
Unused 2	Adjust	Yes	Yes	Yes
Unused 3	Adjust	Yes	Yes	Yes
Unused 4	Adjust	Yes	Yes	Yes
Unused 5	Adjust	Yes	Yes	Yes
Unused 6	Adjust	Yes	Yes	Yes
Unused 7	Adjust	Yes	Yes	Yes
Unused 8	Adjust	Yes	Yes	Yes

Buttons: Add..., Remove, Edit..., OK, Cancel.

Click “OK”

The next time the user tries to open the ECU the Access Control dialogue will appear and the users’ security name will appear in the drop-down list.

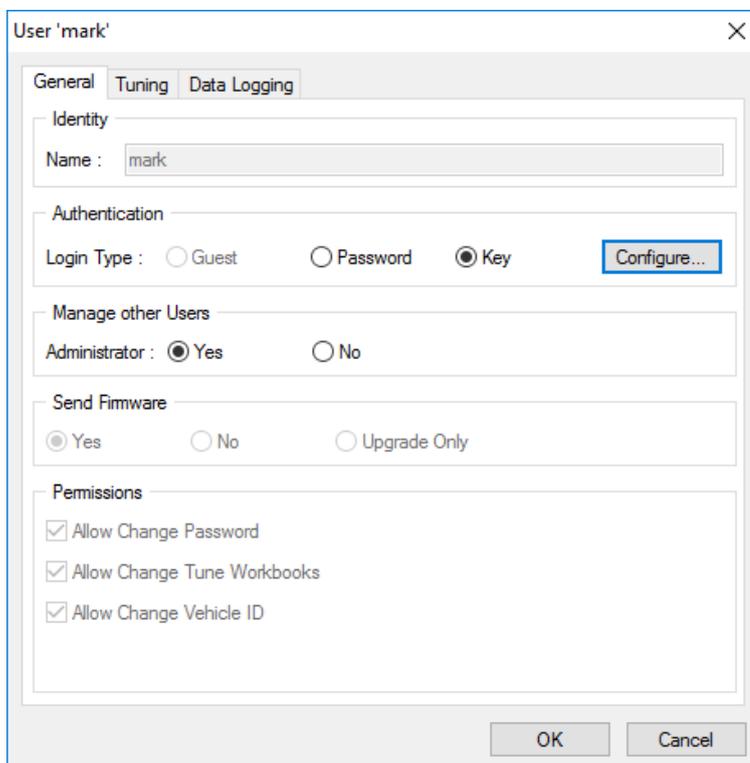


The password will need to be entered to gain access to the ECU.

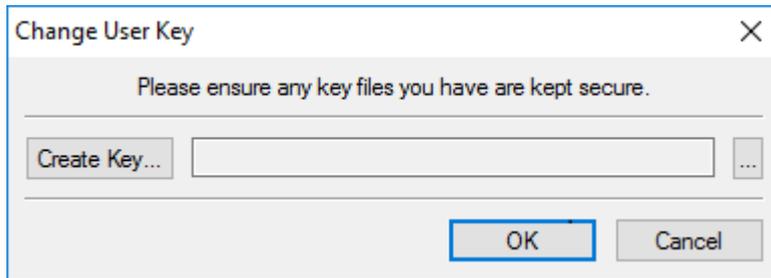
**NOTE:** At this point the Guest user will still be available but there will be no access to any part of the package either when online to the ECU or trying to open the package offline.

## ▶ USING A KEY FILE

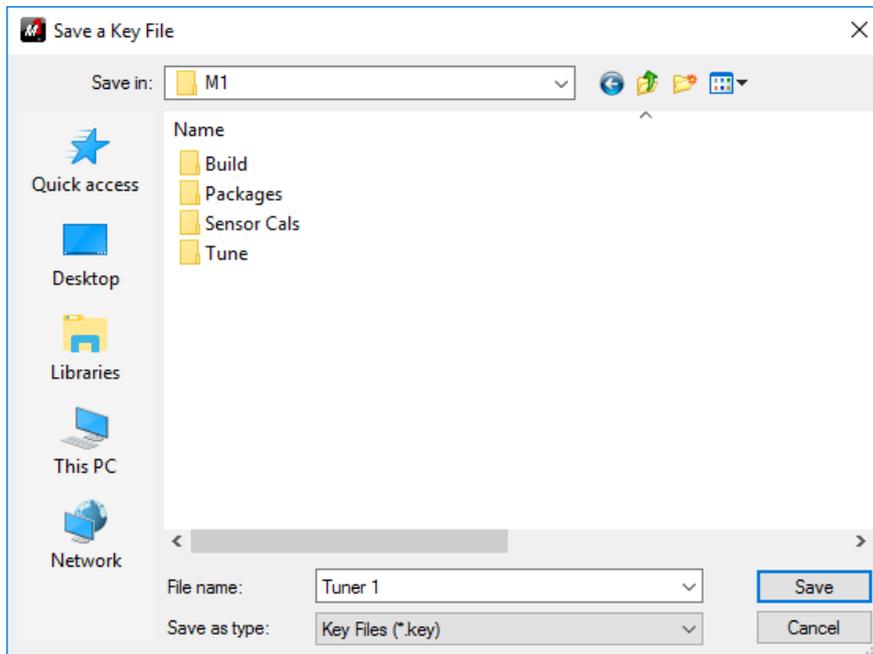
The adding of a new security user is the same as for a password but when the user chooses the Key File option.



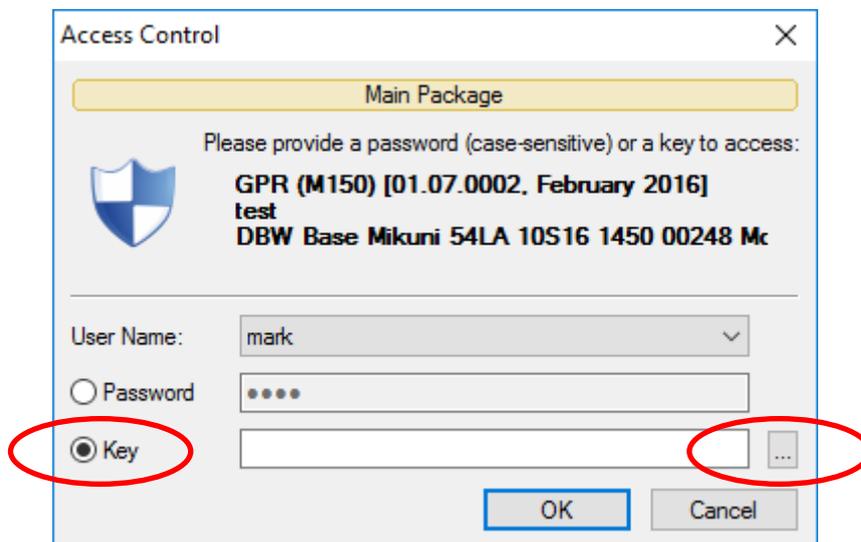
Click "OK" and the Key File configuration dialogue will appear.



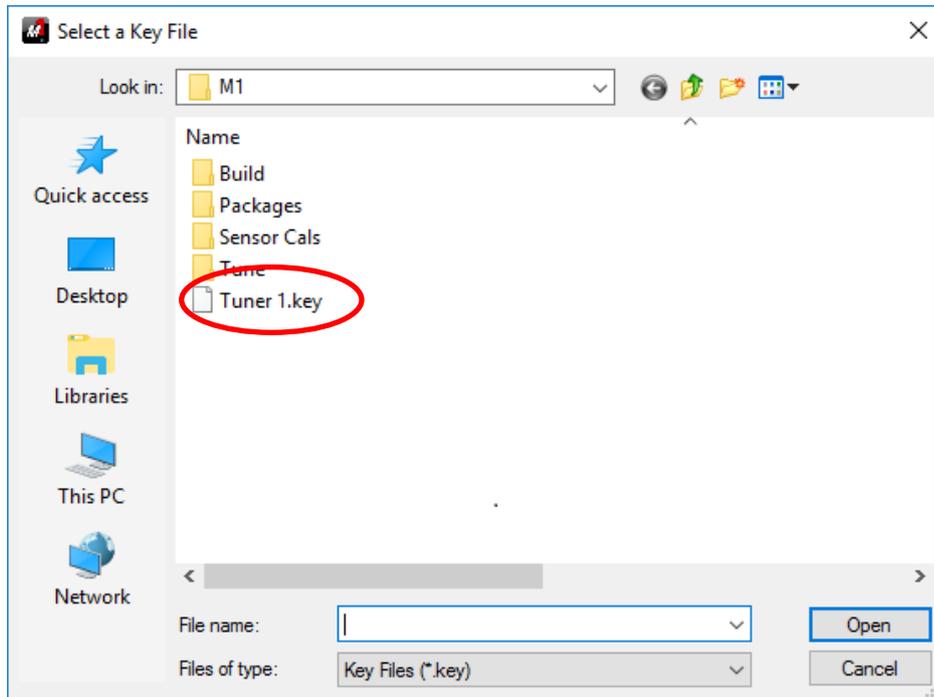
Click Create Key and a Windows browser box will appear with the ability to save the Key File to a location and with a specified name.



The next time the user wants to open the ECU or the package offline they will need to choose the Key option on the security Access Control dialogue and click the Browse button on the right of this.



The user will need to locate the Key File on the laptop.



Then Click "Open" and then "OK" on the Access Control.

## ▶ PASSWORD ON OFFLINE PACKAGES

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It must be remembered that because the package itself is now behind a password even if the package is emailed to someone else it cannot be viewed or sent to an ECU without the password.

## ▶ REMOVING A SECURITY USER

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The user will need to log on to the ECU and select Edit Security Permissions in the Online menu.

Click on the security user that is to be deleted and click "Remove" and "OK". The ECU will reset and the security will have been removed.