ChipLoaderNG

https://www.chipsoft.com.ua/

Module [54] Bosch ME17.8.8 - OBD2

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Purpose

The module is designed to work with Bosch ME17.8.8 ECUs installed on various Chinese cars.
The module supports reading, writing of the Flash memory maps area, identification, reading and resetting of errors through the diagnostic connector.
The module supports checking the correctness of checksums in the firmware, as well as its correction, if necessary.

Necessary equipment

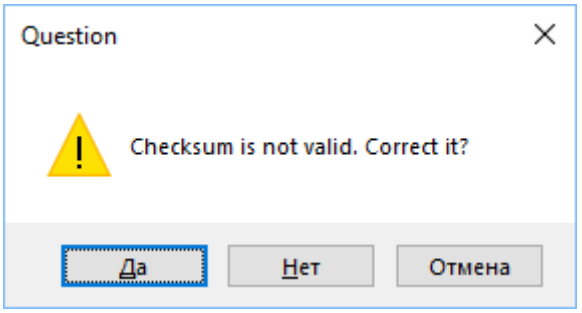
The module has been tested with the following J2534 devices:

1. CHIPSOFT J2534 (Lite/Mid/Pro/acrylic)
2. Tactrix Openport2 (J2534 DLL version must be 1.01.4247 Apr 18 2014 16:14:11)
3. DrewTech Mongoose

For the convenience of working on the table, in cases where it is necessary, we recommend using the CHIPSOFT OBD2 BreakOut Box.

Checking data for writing

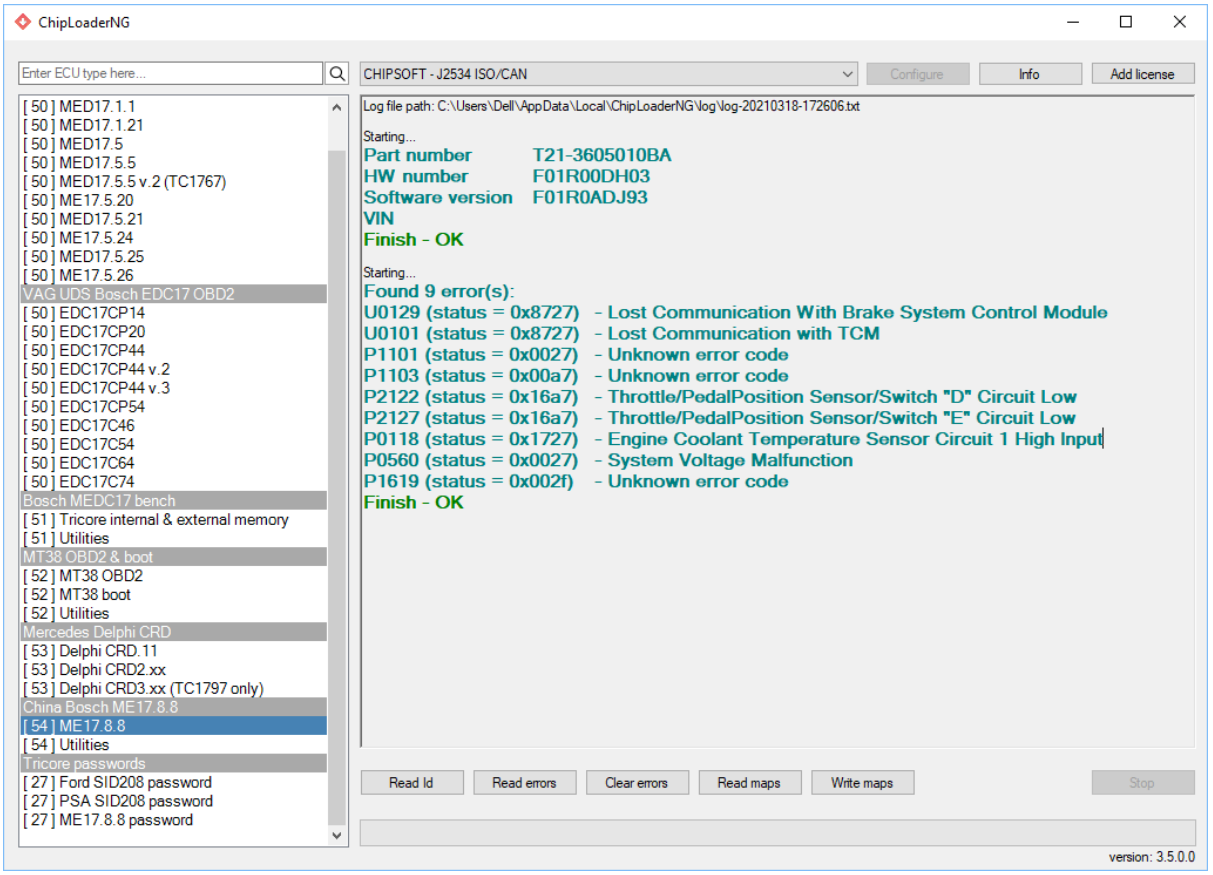
The program performs various checks on the firmware file before it is written. If the checksums are incorrect, the program will offer to fix them:



Also, after reading, the program will automatically check the checksum in the read firmware and give information about it.

ECU identification, read and reset DTCs

These operations are available without a license for the module and can be used for informational purposes.



Read, write ECU

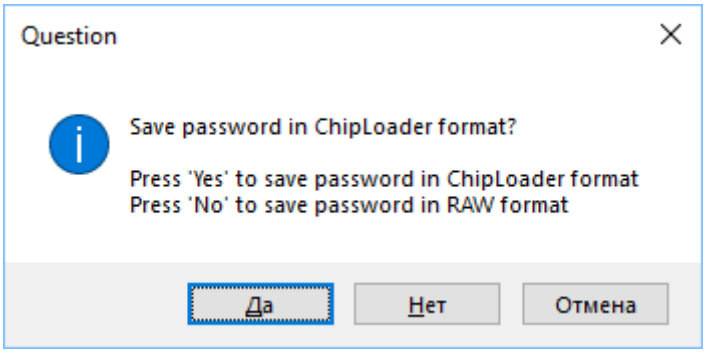
The module reads and writes the maps area of the ECU Flash memory. Read and write operations are safe. If the connection is broken during these operations, the ECU can be read and written again after the ignition is turned off for 10 seconds.
Reading also reads the area containing the password to access the Tricore processor.

Extract password from firmware

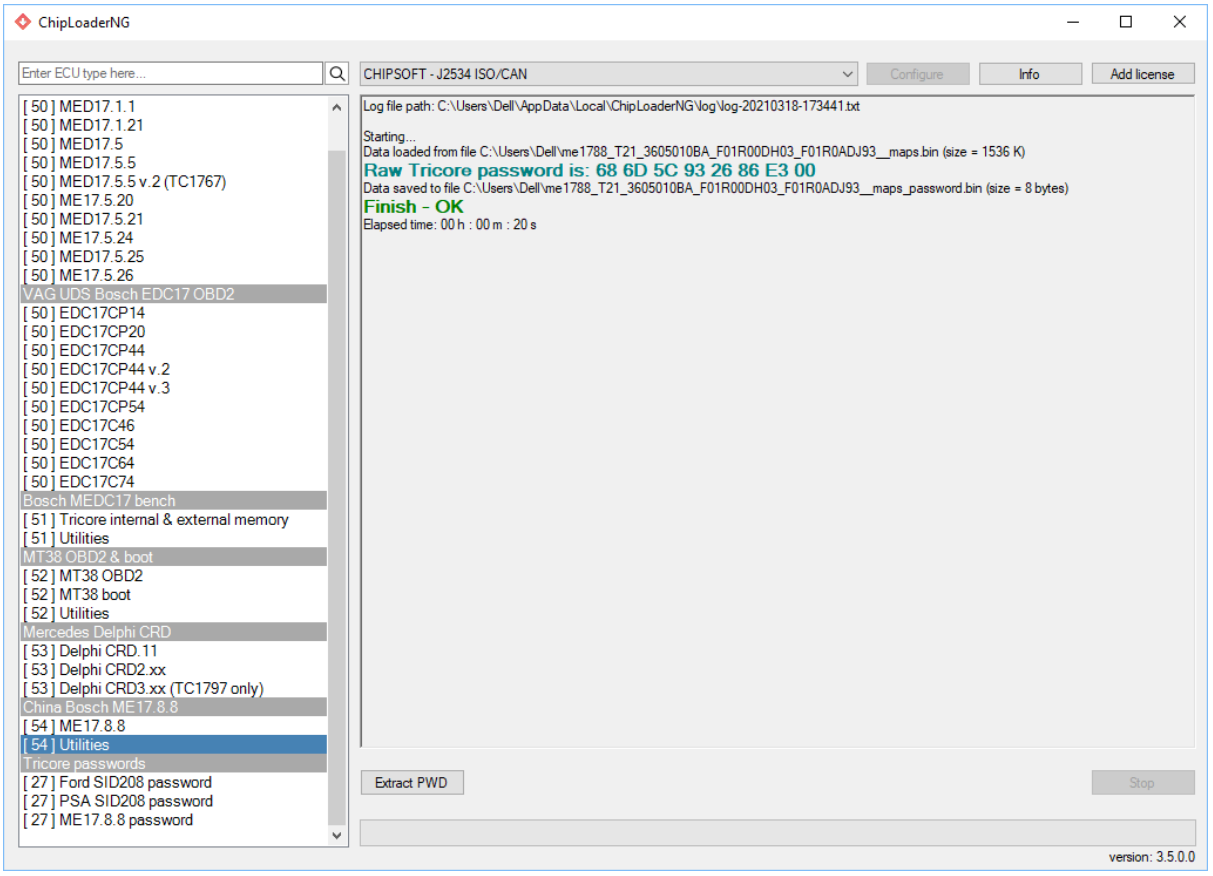
In addition to reading the maps area, the module also reads the area containing the password for access to the Tricore processor. The **Extract PWD** operation extracts the password for accessing the Tricore processor from the binary file (for those binary files where the password is stored in them). The extracted password can be obtained in the following views:

1. Text view
2. As a file in ChipLoader format
3. As a RAW file

The program will ask the user for the type of password submission required:



The textual representation of the password will be displayed on the screen:



ECU pinout

ME17.8.8:

pin 35	+12V
pin 20	+12V
pin 59	Ground
pin 1	CAN - H
pin 17	CAN - L

Possible problems and solutions

When writing an ECU, you can brick the ECU, only by writing incorrect firmware to it. In this case, the ECU can only be restored in boot mode. Having read the firmware from a specific ECU, you can always get the password for accessing the Tricore processor, and if there is a corresponding module in the boot mode, restore the ECU. Loss of communication during reading and writing does not bicked the ECU.