

Software WinOLS-part1:

► Introduction, installation, and initial setting of WinOLS:

As we mentioned earlier, we want to introduce you to different types of ECU remapping software. Then, in a series of comprehensive and practical training sessions, we will teach you how to work with and utilize them. This article introduces you to WinOLS, which is one of the most professional ECU remapping software available. Unlike [ECM Titanium](#), this software requires installation and does not rely on any hardware such as a Dongle.

Before we delve into this software, it's important to note that EVC Electronic company provides a free version of WinOLS called the WinOLS demo version. Those who have not purchased the software or haven't received training yet can use the demo version to familiarize themselves with the software environment and receive training. Once they become professionals, they can purchase the original version.

To download the demo version software, visit the www.evc.de website and navigate to the downloads section. After downloading, proceed with the installation and run the software.

❓ How long should the demo version be used?

You can use the demo version for practice and to repeat the remapping process on different files if you are currently undergoing training.

❓ What is the difference between the demo and the original version of WinOLS?

EVC company has limited several features in the demo version, including checksum correction. However, the primary reason why you cannot use the demo version for actual work is that it doesn't provide an option to export or save the file. On the other hand, the original version allows you to save the remapped file and write it onto the ECU.

During training, we utilize the installed demo version. It's worth noting that there are no differences in terms of features and settings between the demo and the original version. To effectively work with the software, you need to configure some initial settings.

First, import the file into WinOLS. Then, press **F12** and access the configuration menu. In this section, you can adjust the initial settings.

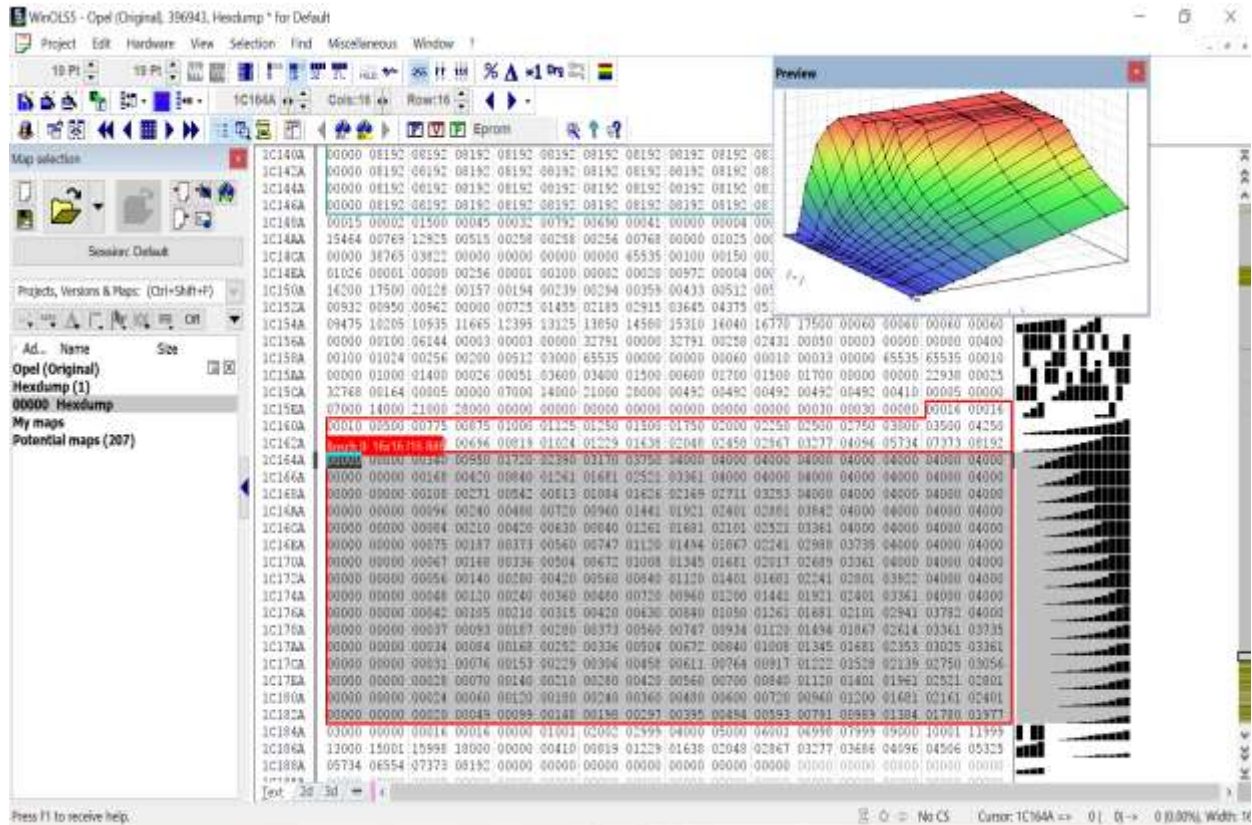
You can choose your desired color and color theme from the color section. Here, we select the Windows option. Click on "**with height color**" in the 3D section to display the three-dimensional tables in color. Additionally, disable this option in the 2D view.

In the map search section, make sure to check the boxes for statistical map recognition and search maps in the current version if they are not already marked. Then, highlight the desired area, right-click, and select the **rectangle option** from the selection mode.

[By performing these steps, you can choose the desired location as follows. There are other aspects like language selection or options for online operations that you may not need right now. These are the primary WinOLS settings. Save the changes and close the window.](#)

Opening the ECU file and finding the tables in the software environment:

To import the file to the WinOLS, we use Opel with BOSCH EDC16 C36 ECU original file and we can drag and drop and import the dump to the WinOLS.

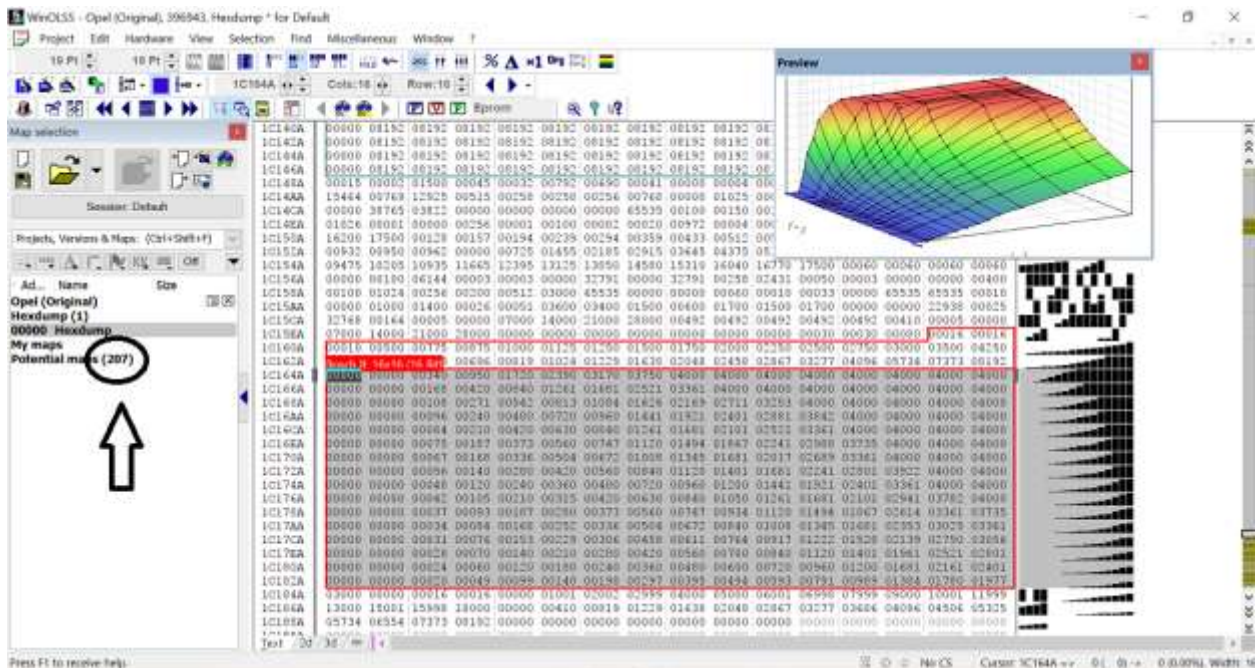


Also, from the toolbar section in the project, new file, you can select the intended file and load it in WinOLS.

The initial information of the file is shown in the information section. In the next section, click on the ignore similar project and continue.

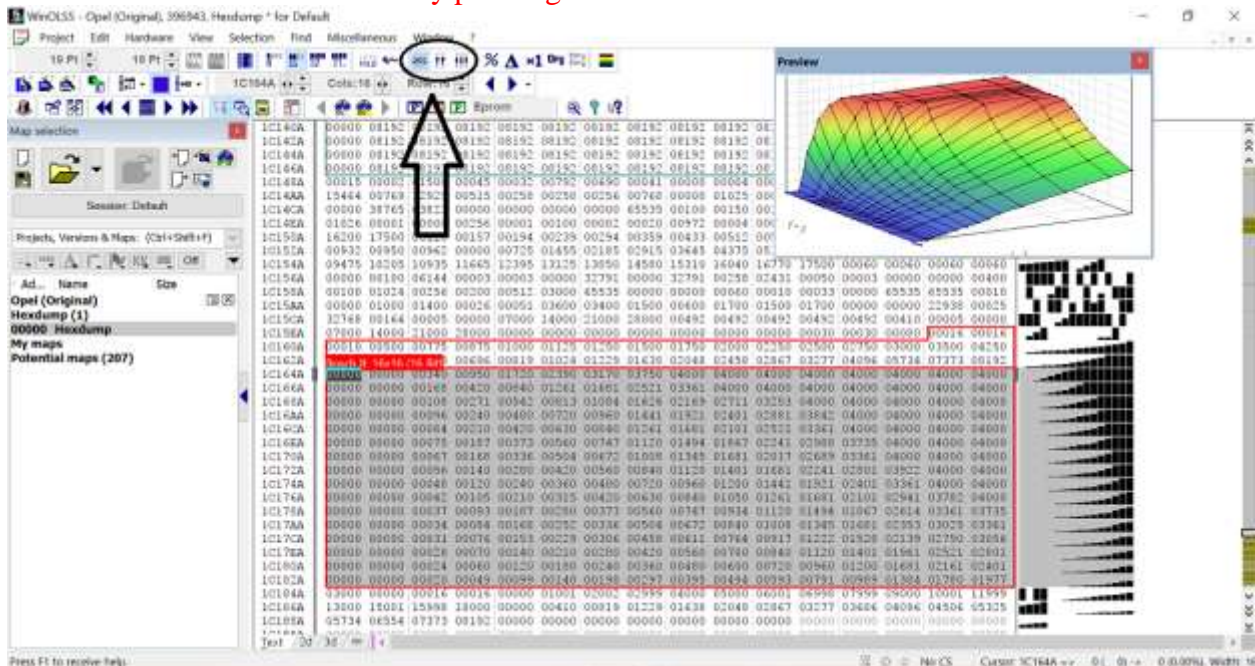
In this section, you see the information related to the checksum that the checksum is a kind of control algorithm in ECU that by ECU manufacturers and to prevent the applying changes in the file is applied. WinOLS can calculate the checksum, and in [our training course](#), we will thoroughly describe the checksum.

In this section, you can see the vehicle information, and if the information does not show, fill in the blanks by yourself and complete the vehicle information. When you import the file to WinOLS, it automatically searches the dump until you find the different maps in the ECU dump. After the searching finishes, the number of maps as a "potential maps" is found. For instance, here, you can see around **207 potential maps** are located.



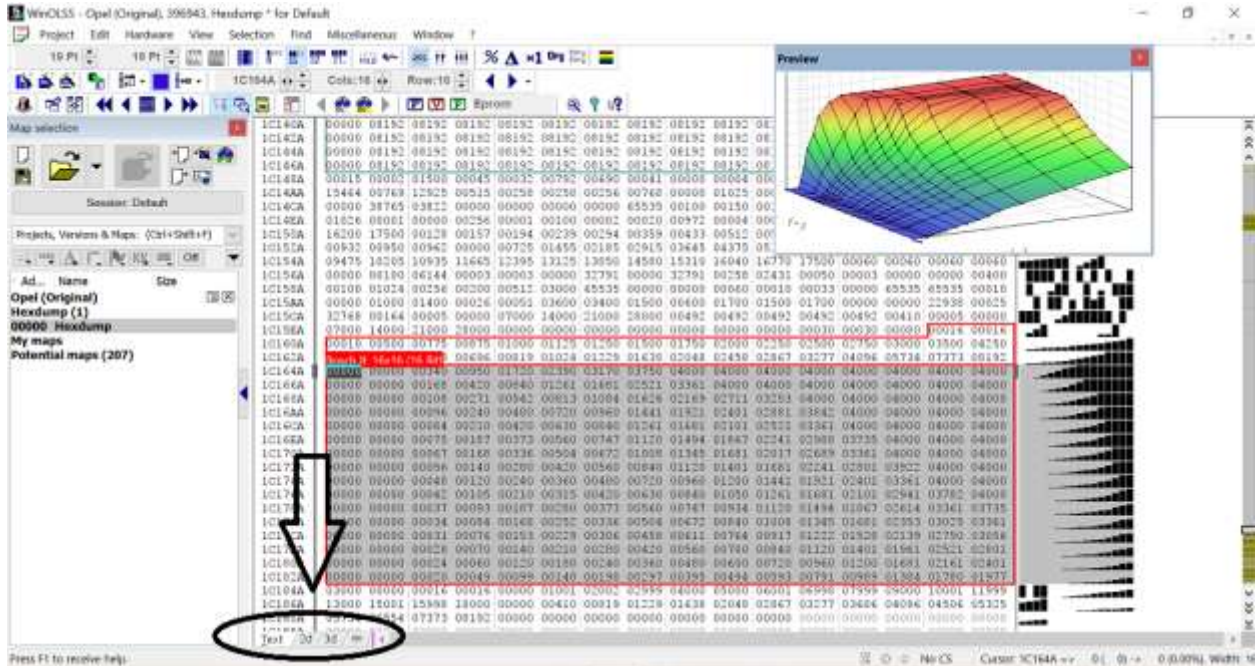
These potential map tables include all main tables and ECU control, like a table of ignition, fuel, and torque, turbo pressure and etc.

It is important to remember that original files contain a huge amount of information, but only a small portion of them is relevant for the engine calibration. However, not all of them need to be changed and we only change the required tables. For example, by changing the turbo boost, we can change the power and torque of the engine or reduce the engine consumption with the fuel injection table. The first thing you notice here is that, unlike ECM Titanium, this software does not include driver, category, and table names. **The display of information in WinOLS is HEX, which can be seen as a decimal by pressing 255.**



It is always better to turn on the 255 after inserting the dump into the WinOLS to see it numerically. If we pull the bar on the right down, we can overview the whole dump. As we move down, we see a table in some dump areas. These are the tables that WinOLS has chosen as a potential map. If we click on each table, it is opened and is placed on the left, which means you can list some of the tables you need here. Note that each table has its own two-dimensional and three-dimensional views.

2D and 3D views help us to quickly identify tables, just by selecting the option. **By pressing the F key**, we can search the tables and select the suitable tables for the remap. You can also return to the previous table by pressing **SHIFT+F** if necessary.



It is also possible to search tables in 2D view. This method is used to find different tables in ECU. If you want to select part of the dump separately from the potential map, you can highlight that area and **press the K key**. For instance, I select this area and then press the K key; you will see that this area is placed as a table in my map section.

In general, WinOLS allows us to search inside the dump and, with technical knowledge, find tuning tables such as torque limiter, spark advance, fuel table, etc. and select and modify them.

In part2, we will teach you how to change tables, use a map pack and compare two maps...