# EDIS Platform Identification Software for EControls LLC. GCP and 4G Engine Control Modules

**Revision 0.1**

**Sept. 12, 2012**

# Table of Contents

# 1 Revision History

| Version | Date | Description | Author |
|---|---|---|---|
| 0.1 | 9/12/12 | Initial Release | Z. Du |

# 2 Overview

The EDIS Platform Identification Software is a software utility intended for use by Original Equipment Manufactures (OEMs) and/or engine technical service people to automatically identify the connected EControls GCP or 4G ECM and launch the appropriate EDIS display software. The utility uses the ECOM interface cable to communicate with ECM via CAN bus. RS232 communication is not supported on 4G ECMs and RS232 support has not been incorporated in this release for GCP modules.

# 3 Installation

To install the software, double click the setup.exe under the installation directory. This program uses the Microsoft .NET framework. Computers that have the .NET framework installed will have less installation prompts and will install quicker; all or some of the prompts shown in Figure 1-Figure 4 will be displayed depending on the Windows Operating System (OS) and .NET components installed on the client computer. Answer the prompts appropriately to install and retrieve the necessary supporting software components.

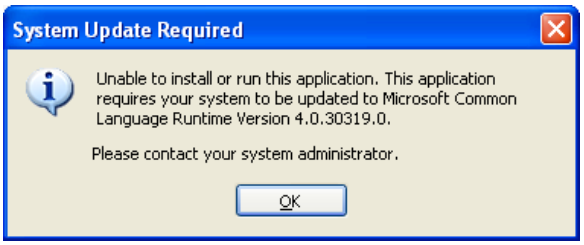


**Figure 1: System Update Required Prompt**

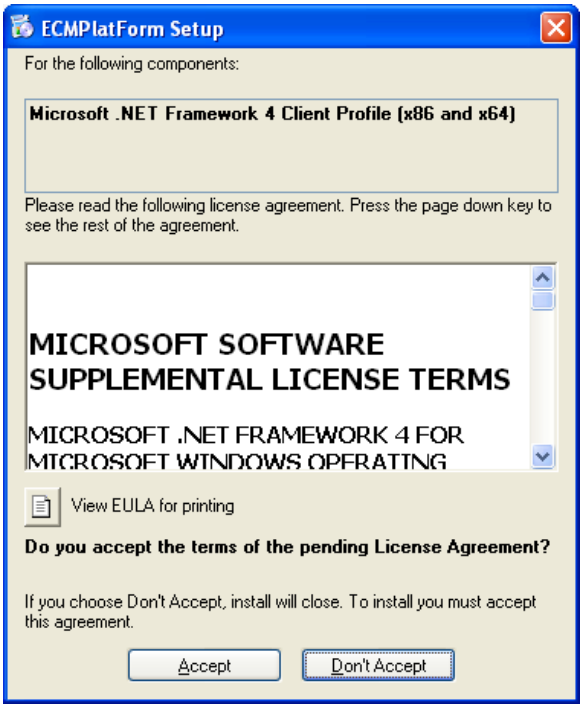


**Figure 2: Microsoft .NET End User License Agreement Prompt**

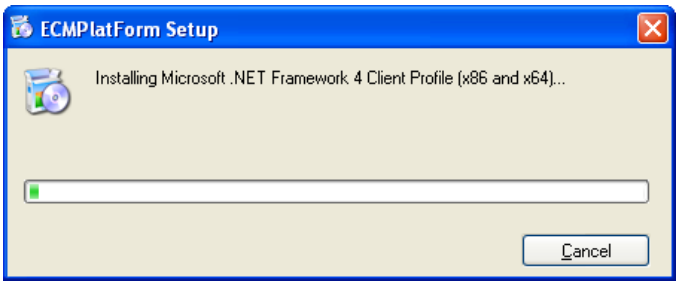


**Figure 3: Microsoft .NET Framework Installation Prompt**

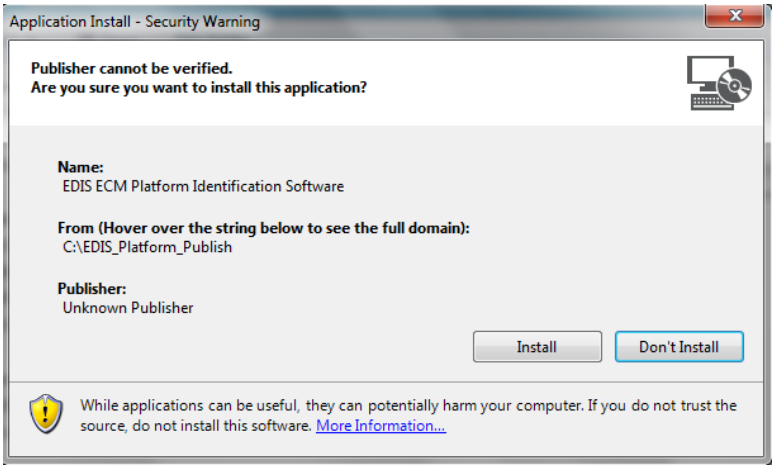


**Figure 4: EDIS Platform Identification Software Installation- Security Warning**

To run the utility after installation, either click the desktop shortcut or select the program from the Windows Start Menu. After starting the software, the software interface shown in Figure 5 will appear.

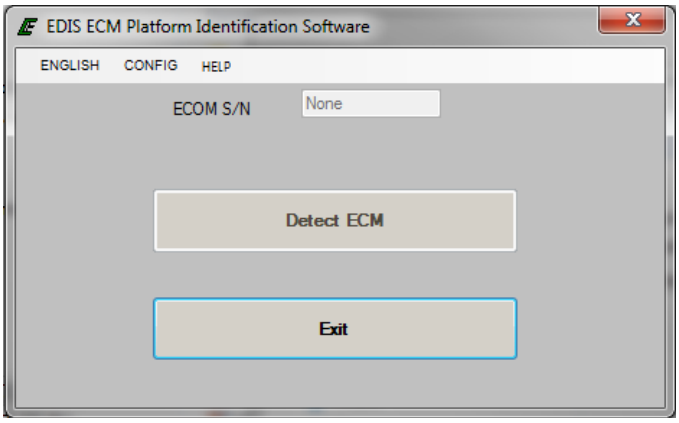


**Figure 5: EDIS Platform Identification Software Interface- Main Screen**

The software has two button commands and three menu commands. The following sections will describe these command functions.

# 4 Configuration

There are two configurations for this software utility; language configuration and ECM EDIS location configuration.

The software supports two languages, English and Chinese. The first menu command is the language configuration command. Clicking this command will switch between English and Chinese. *ENGLISH* will display English, and *中文* will display Chinese.

The *CONFIG* menu command configures the location of the GCP and 4G EDIS programs. When the *CONFIG* button is clicked, the configuration window shown in Figure 6 will be displayed.

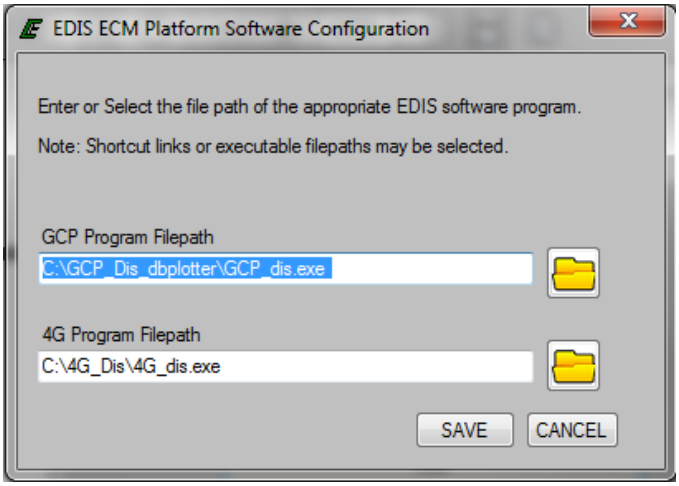


**Figure 6: GCP and 4G EDIS Display Software Configuration**

Using this configuration window, enter or select the appropriate EDIS software program. Here, both shortcut links and executable files are supported. For example, to select the GCP program filepath, click the "folder select" button, navigate to the location of the executable or shortcut link file, select the file, and click the "*Open*" button as illustrated in Figure 7. The filepath information will be displayed in the *GCP Program Filepath* text box. The 4G program filepath configuration is similar.

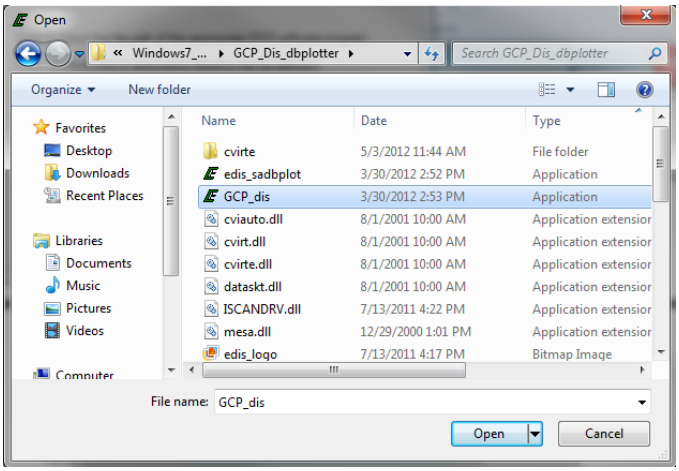


**Figure 7: GCP Display Software Configuration Example**

To enter the filepath information directly into the filename text box, make sure to enter the entire filepath correctly. If the filepath is not correct, an error message will be displayed as shown in Figure 8 after the *SAVE* button is clicked.

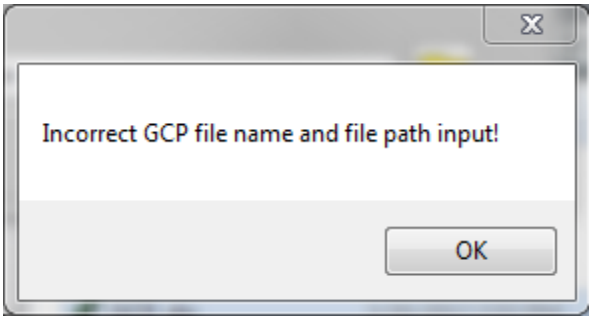


**Figure 8: Incorrect GCP Program Filepath Input Message**

Once both EDIS program filepaths have been assigned, click the *SAVE* button. If you do not want to save the configuration information, click the *CANCEL* button and the configuration will revert to the previous state and the program will return to the main screen.

*Note: Button selection configuration is recommended.*

# 5 ECM Detection and EDIS Program Launching

An ECOM interface cable is required to detect an ECM. If an ECOM cable is not connected, the *Detect ECM* button is greyed-out and disabled as shown in Figure 9.

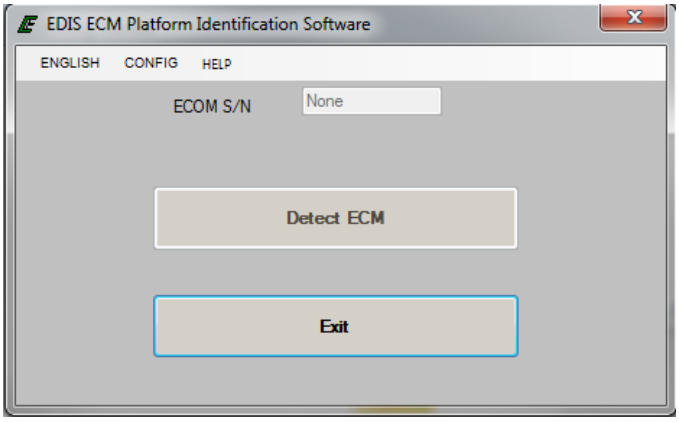


**Figure 9: ECOM Cable Unavailable**

If an ECOM cable is detected, the ECOM's serial number is shown in the *ECOM S/N* box and the *Detect ECM* button is enabled as shown in Figure 10.

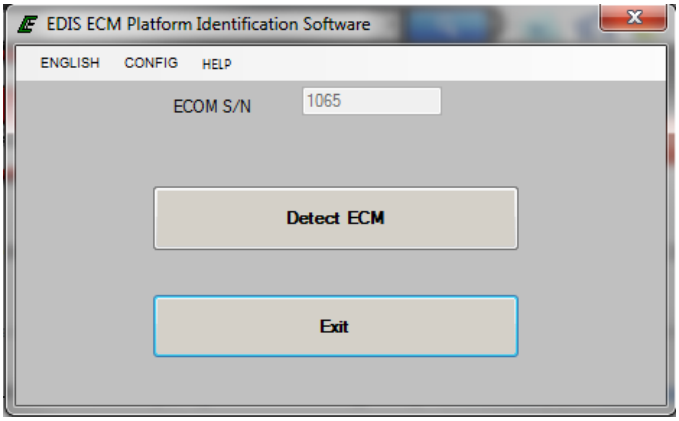


**Figure 10: ECOM Cable Available and Detect ECM Function Enabled**

To detect an ECM, click the *Detect ECM* button. If this is the first time the program has run and the GCP and 4G EDIS filepaths have not been configured, the error message "*Not able to find the configuration file, please use the CONFIG function to generate a configuration file first*!" will be displayed as shown in Figure 11. To correct this issue, see Section 4 Configuration.

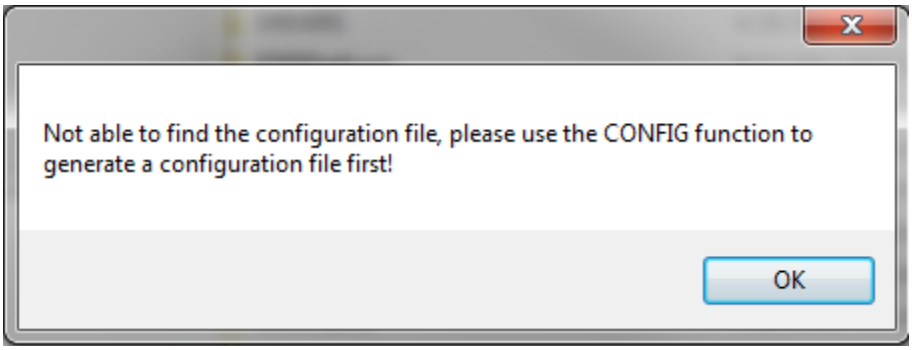


**Figure 11: Error Message- Configuration File Missing**

If the configuration is proper and an ECOM is present a CAN message will be sent to the ECM. If there is no response for a certain amount of time the error message "*Not able to find ECM via CAN Bus, please check wire connection and re-try!*" will be displayed as shown in Figure 12. Usually, this is because no ECM is connected to the CAN bus or the ECM is not properly powered.

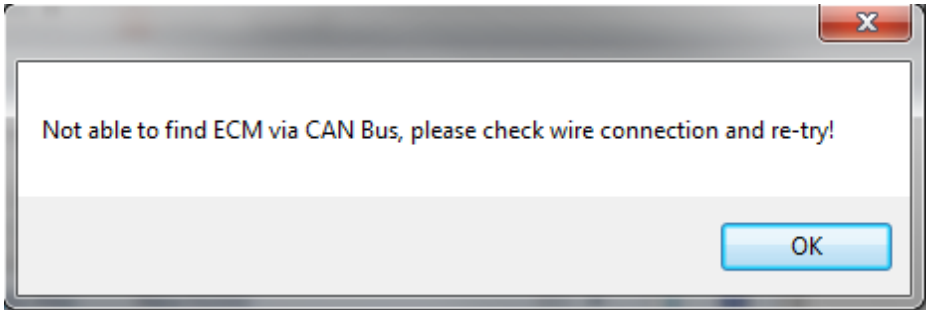


**Figure 12: Error Message- Unable to Detect ECM**

If the ECM feedback response is successful, the program will display either a GCP or 4G “detected” prompt as shown in Figure 13. Click the *OK* button and the system will automatically launch the GCP or 4G EDIS program from the location set in the configuration.

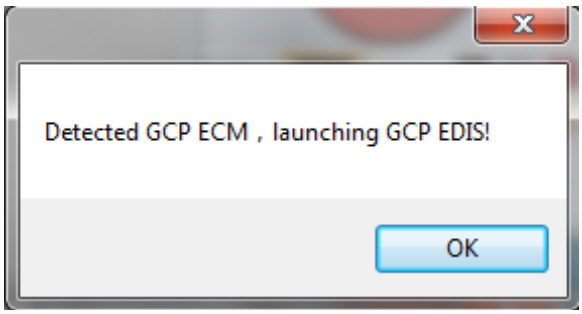


**Figure 13: ECM Detected and Launching Prompt**

After the EDIS program has been started, the EDIS Platform Identification software will automatically close.