Xscape Ez

Where technology and experience work together

Ez-TRAC Users Manual

EZ Device Technology Series

Version 2.1.0

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1.0 Overview

The Ez-TRAC software from XscapeEz Ltd. is designed to be used in conjunction with XscapeEz Ez-TAP modules and Ez-Base. The Ez-TRAC software, when used with the Ez-TAP hardware system, allows for wireless reporting of faults, triggers, and vehicle status from Ez-TAP equipped vehicles in range of the base station. This data can then be sent, via TCP/IP, across the internet or local network to any destination in the world with network access using a second copy of Ez-TRAC or through a custom application/service created by a third party.

2.0 System Setup

The Ez-TAP system consists of three hardware components:

1. Host Computer
2. Ez-TAP remote module
3. Ez-Base

Before attempting to use Ez-TRAC, the XscapeEz RP1210 driver must be installed on the computer. If the driver is not installed, it can be downloaded from http://www.xscapeez.com/EZ%20TAP.html, or installed from the CD that came with your Ez-Base.

3.0 Using the Ez-TRAC Software

Ez-TRAC is designed to run with little to no configuration. On initial startup, the software defaults to RP1210 device 101. If this connection fails, you will be prompted to select a new RP1210 device, which will be saved as the new default upon successful connection. Once successfully connected to an Ez-Base module, Ez-TRAC begins to automatically query for available units.

4.0 Main Window – Active Vehicles Tab

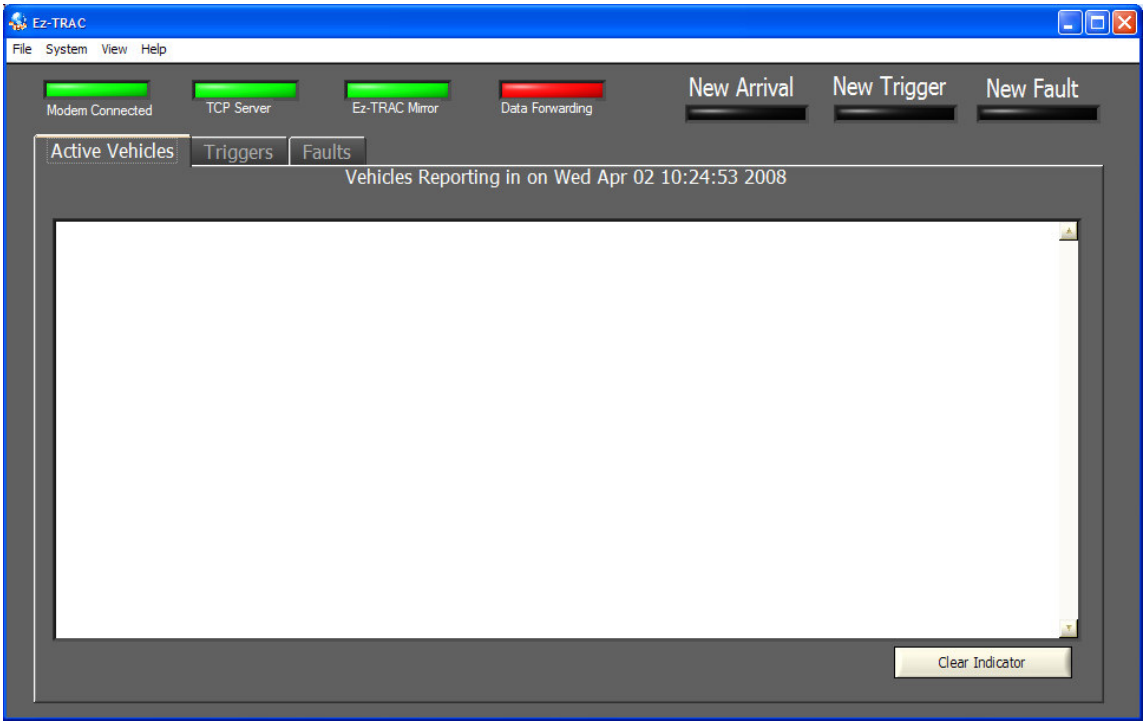

Figure 1- Ez-TRAC main window.

The main window of Ez-TRAC provides an overview of all available units and their current status. The list is automatically updated at the default interval, with the time of the most recent query displayed above the list. The list will display both units detected locally with an Ez-Base, and those being reported over the TCP connection.

Control Definitions:

Modem Connected- Visible if Ez-TRAC is configured to use a Ez-Base to collect data. Green indicates a successful connection. Red indicates an error opening the to the Ez-Base.

TCP Server- Visible if Ez-TRAC is configured to accept Ez-TRAC mirror incoming data. Green indicates a successful connection. Red indicates an error opening the specified port.

Ez-TRAC Mirror- Visible if Ez-TRAC is configured to send Ez-TRAC mirror messages to another location. Green indicates a successful connection. Red indicates an error opening the specified port or a connection error.

Data Forwarding - Visible if Ez-TRAC is configured to forward data messages to another location. Green indicates a successful connection. Red indicates an error opening the specified port or a connection error.

New Arrival – Indicates that a new unit has been detected.

New Trigger – An active unit is reporting a new trigger.

New Fault - An active unit is reporting a new fault.

Clear Indicator – Clears the *New Arrival* indicator.

4.1 Device Identification

Devices reported in the *Active Vehicles* window have many different identification parameters listed with them. These parameters are used for addressing and communications in XscapeEz wireless systems. Those listed in the *Active Vehicles* window are: Group, ID, and address. In addition, the entry in the window indicates whether the device was detected locally via the Ez-Base, or at a remote location and is being reported via TCP. Entries reported from a remote location will list the identifier of the remote Ez-TRAC application.

Entries in the main window have the following format:

Device Group	Device ID	Device Address	Information source

The information source name will be “Local” if the entry is based on a query made through a locally connected Ez-Base unit. If there is a Ez-TRAC setup elsewhere to mirror data on this Ez-TRAC then the source name will be the name specified in the other Ez-TRAC under “My TCP ID”.

4.2 Main Window – Triggers Tab

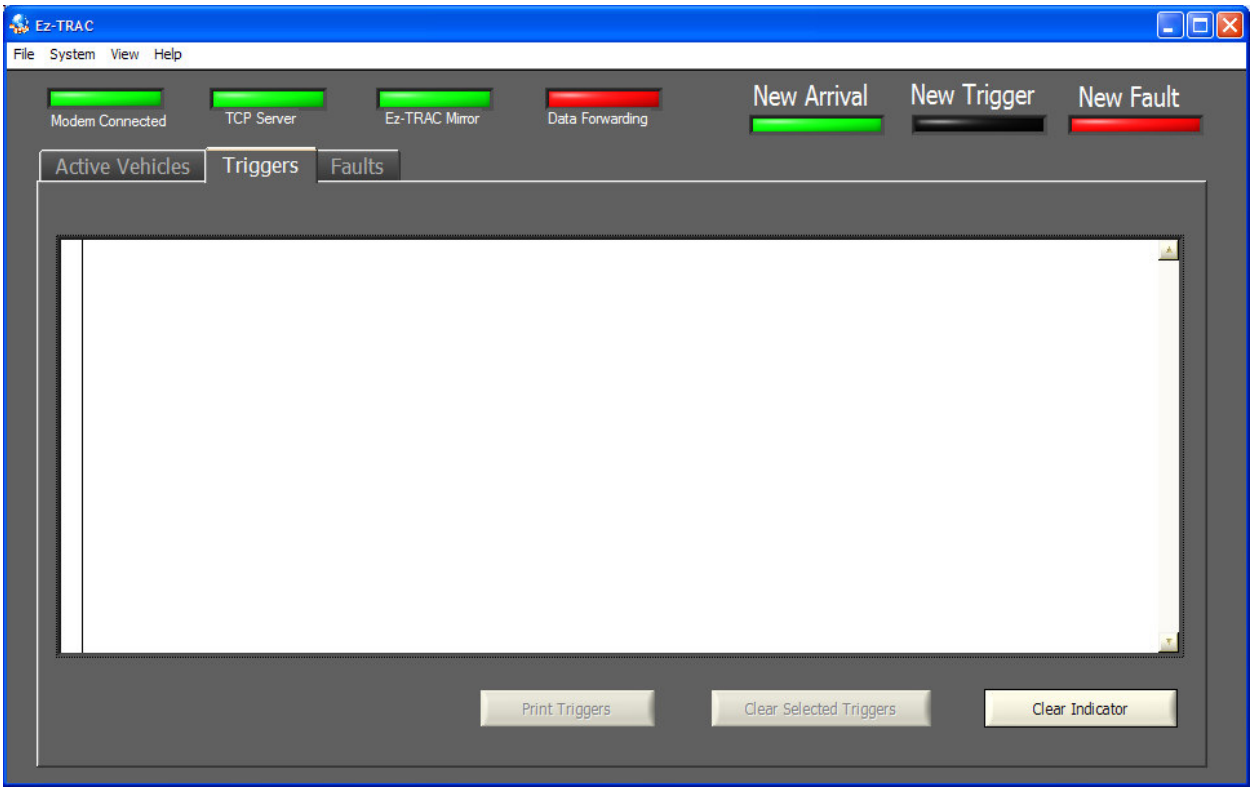

Figure 2: **Ez-TRAC Trigger tab.**

The *Trigger* tab contains information about triggers currently being reported by Ez-TAP units. Triggers must be cleared *from the Ez-TAP module* in order for reporting to stop. To remove a trigger entry from the list, select the entry, and click remove entry. The *New Triggers* indicator will remain lit until cleared in the *Triggers* tab.

Control Definitions:

Print Triggers – Prints the triggers list to the system default printer.
Clear Selected Triggers – Clears the selected trigger from the list.
Clear Indicator – Clears the *New Trigger* indicator.

Entries in the trigger window have the following format:

XEL	EZ-Cube	Trig# 2	Count 1	Trans	NEW
Group	ID	Ez-TAP Trigger #	Times Condition Occurred	Trigger Name	Trigger is old/new

4.3 Main Window – Faults Tab

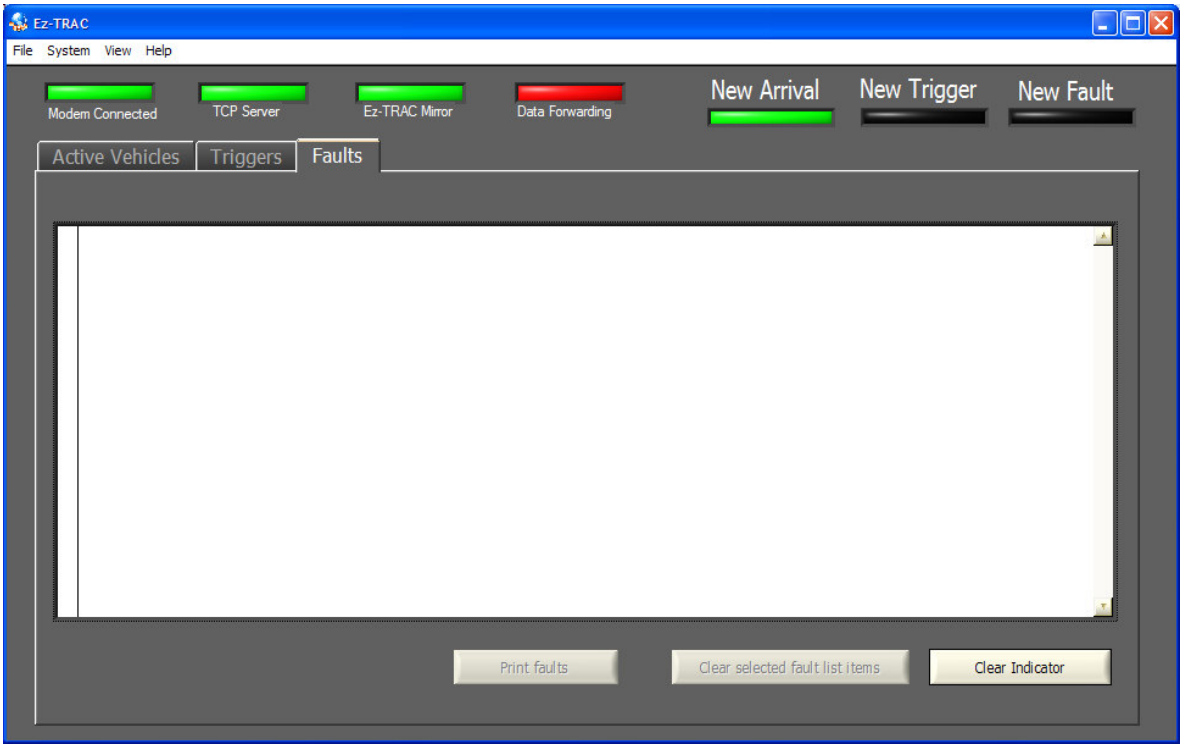

Figure 3: **Ez-TRAC Faults tab.**

The *Faults* tab contains a list of all units which have reported faults. Unlike triggers, which must be cleared, faults are cleared once requested. All reported faults will remain in the list until selected and cleared. Along with the unit's Group and ID, the entry will contain the protocol the fault was reported on, and the fault's source, as well as any applicable data.

Control Definitions:

Clear Indicator – Clears the *New Fault* indicator.

Entries in the trigger window have the following format:

J1708 Entries:

XEL	EZ-Cube	J1708	Brake	052 128 033 064	NEW
Group	ID	Protocol	Source	Fault Data	New/Old Fault

J1939 Entries:

XEL	EZ-Cube	J1939	Engine	Active fault	NEW
Group	ID	Protocol	Source	Active/Passive Fault	New/Old Fault

5.0 Software Options

To change system options, go to *System* in the Menu bar and select *Options*.

5.1 Modem & Data Options

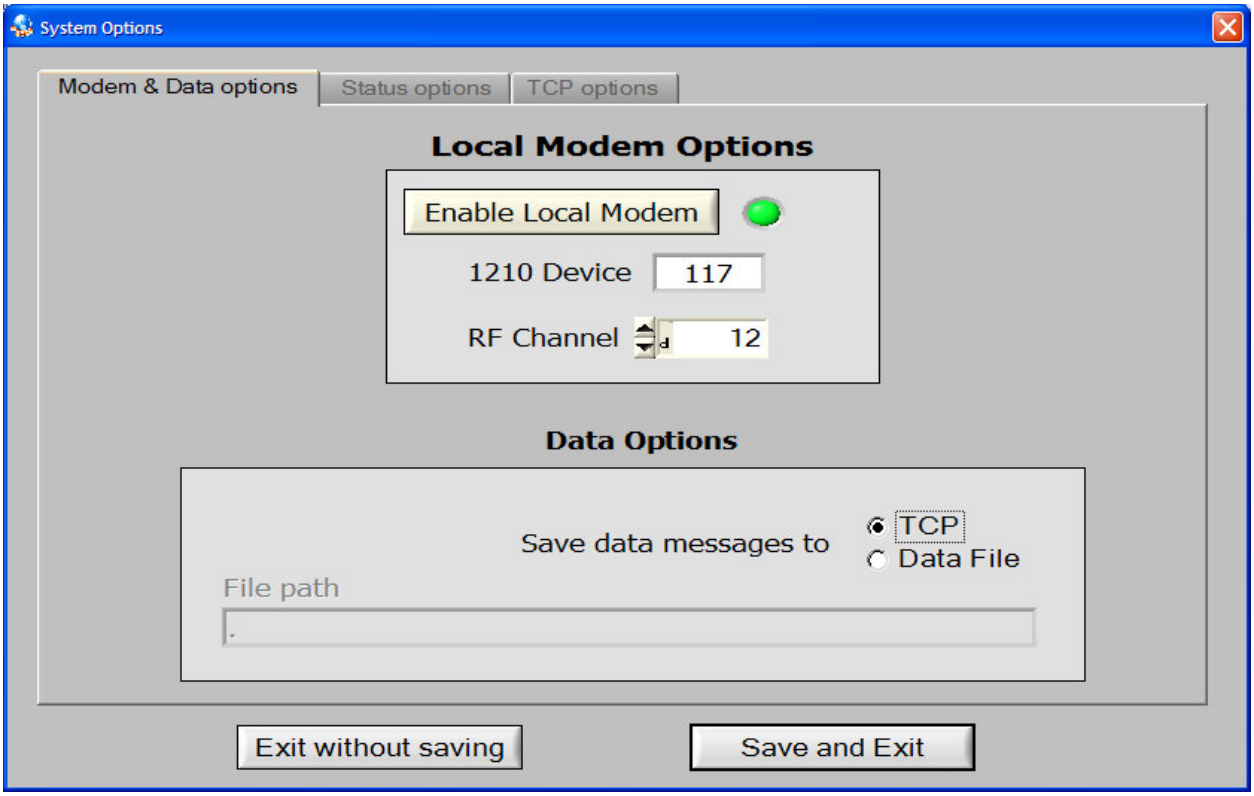

Figure 4: **Ez-TRAC Modem & Data Options Settings window.**

Control Definitions:

Enable Local Modem – This allows the user to enable or disable the local Ez-Base modem. If the LED is green then the modem is enabled and successfully connected. If the LED is red then Ez-TRAC has failed to connect to the Ez-Base for some reason.

1210 Device – The RP1210 device Ez-TRAC initially attempts to connect to.

RF Channel – The channel the Ez-Base unit will be set to on startup. The default for most applications is channel 12.

Save Data… – If Ez-TRAC receives data messages from vehicle units then this control alters how they are handled. They can be forwarded via a TCP connection or saved in the specified file.

5.2 Status Options

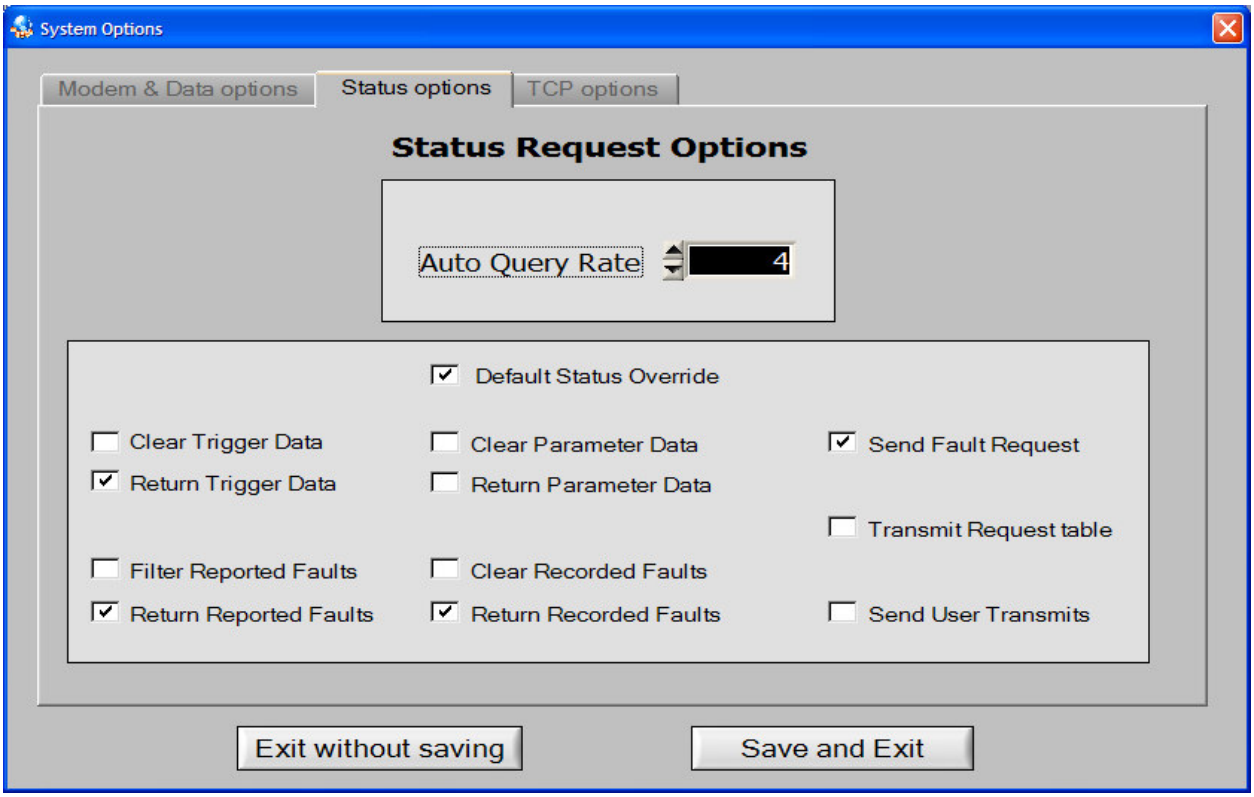

Figure 5: **Ez-TRAC Status Options Settings window.**

Control Definitions:

Auto Query Rate – This control allows the user to control the rate in seconds that remote units will be queried for their status.

Default Status Override – This control allows the user to override the default settings in the vehicle unit regarding the status information that it will provide when queried.

5.3 TCP Options

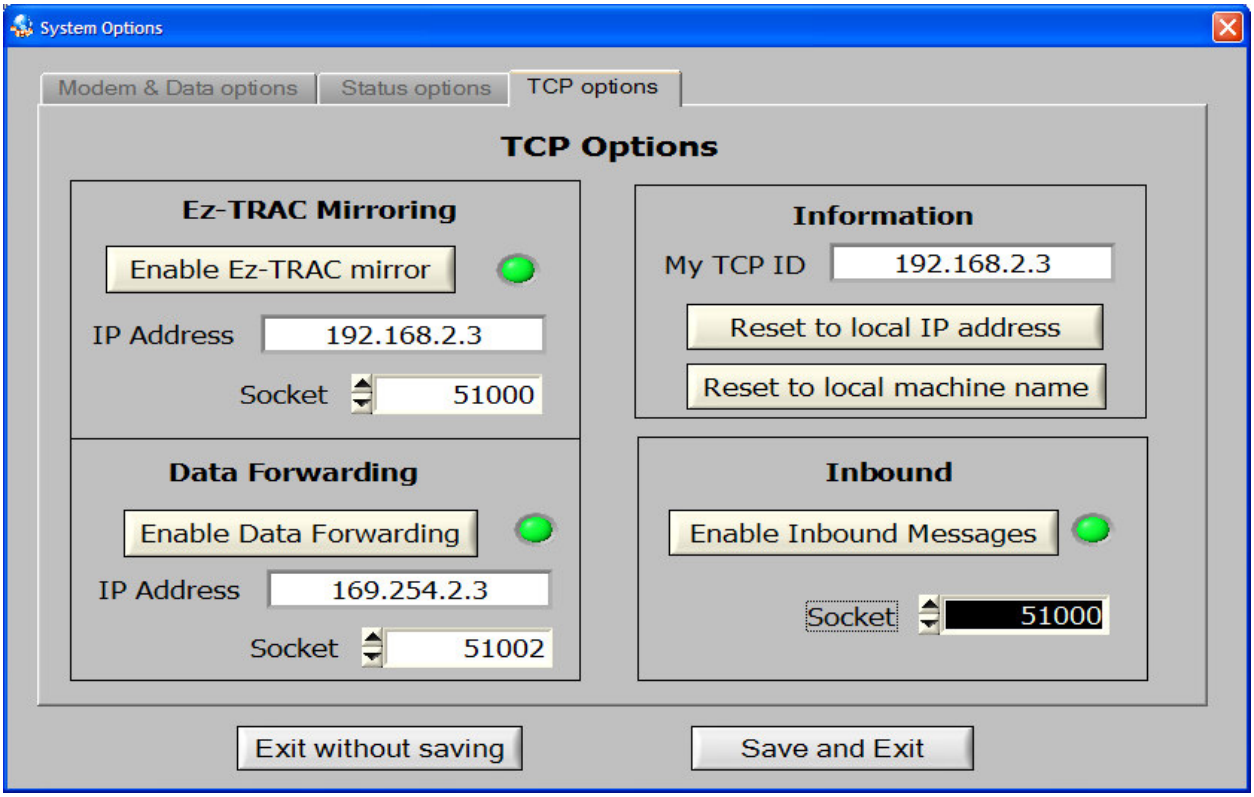

Figure 6: **Ez-TRAC Status Options Settings window.**

Control Definitions:

Ez-TRAC Mirroring – This control allows the user to specify a Ez-TRAC application at another location to send mirror messages to so that the information will appear on that Ez-TRAC as well.

Data Forwarding – This control allows the user to specify an IP address and TCP socket to forward any data that is collected from a vehicle unit so that it could be further processed.

Information – This control allows the user to specify the name that will be reported in any outgoing mirror or data messages as the source of the information.

Inbound – This control allows the user enable the TCP server that would be used to accept incoming mirror messages from another Ez-TRAC.

6.0 Log Files

Ez-TRAC generates log files for each unit that reports faults or triggers. The log file records the fault and/or trigger, the date and time. Selecting View>>Vehicle logs will bring up a selection window. The log files are automatically generated and named with the unit's ID.

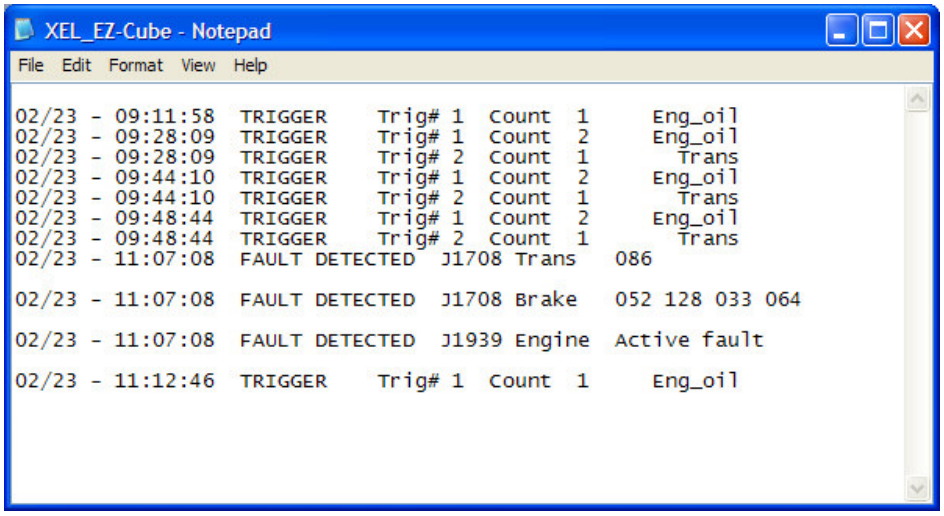

Figure 7: **A sample Ez-TRAC trigger log.**

Ez-TRAC also generates a log file of errors reported by the software. Selecting View>>Vehicles will bring up a log file which reports all software error codes.

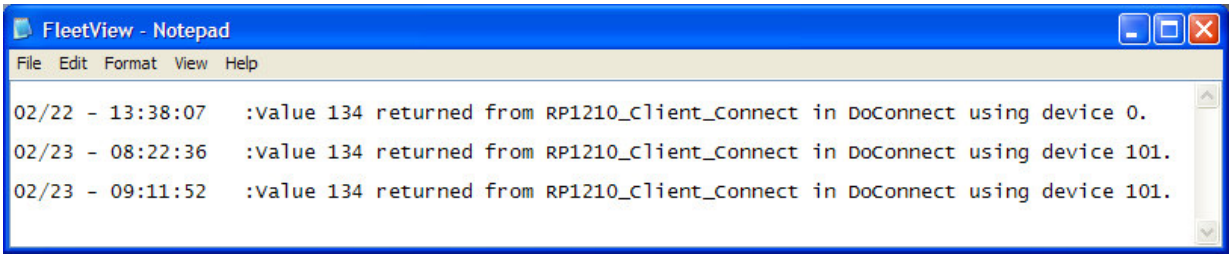

Figure 8: **A sample Ez-TRAC error log.**