

# **Intrepid Control Systems, Inc.**

## **Setup Vehicle Spy3 v700 for Ethernet**

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## 1. Introduction:

Automotive Ethernet is introduced Vehicle Spy 3 Version 700. This document is a setup guide for configuring the Ethernet network in Vehicle Spy

## 2. Setup Vehicle Spy3 v700 for Ethernet

### 2.1 Procedure:

#### 2.1.1 Install Ethernet Driver

- Vehicle Spy uses a special Ethernet driver for monitoring ethernet. This is an open source freeware driver called Winpcap. You must install this first.
- There are two ways to get Winpcap. One is to install Wireshark. Wireshark uses this driver to monitor ethernet communications. This is the recommended option as Wireshark is a useful tool if you have to debug any Vehicle Spy ethernet issues.
- You can also install the Winpcap driver directly. This might be a required option because some IT departments see Wireshark as a hacker tool.

#### 2.1.2 Make sure that “icsenet.dll” is in the DAQ Vehicle Spy directory

- Vehicle spy adds ethernet via a Vehicle Spy plug in called IntrepidIO. Basically, any Intrepid IO dll in the DAQ directory becomes a new hardware type you can select in networks view.
- Example DAQ directory  
C:\vspy3-v700\_prep\bcbw32\daq\icsenet.dll
- A common problem on a non development machine is to use the debug version of this DLL. It will not work. You can determine if you have the release dll by its file size. The release version of this DLL should be under 100kbytes. The size could change over time so keep aware.

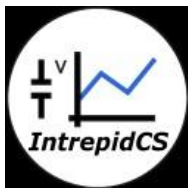
#### 2.1.3 Add a new network, Pick Network Interface, and select “Ethernet” as protocol

- In Vehicle Spy Networks view you can add a new network, select Ethernet PCAP as hardware. This will then list your network cards in the computer. The last step is to select Ethernet as a protocol (VERY IMPORTANT!!).

#### 2.1.4 Use Vehicle Spy to monitor Ethernet!

- Check out the new column set in the messages monitor. You can also send ethernet frames as well.

### 3. Contact Us:



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