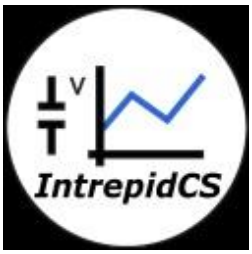


# Intrepid Control Systems, Inc.

## VehicleScape DAQ Gateway

**Document Number: AN-ICSI-1005**

**Rev 1.0 06/2014**

**Contents**



 

## 1. Introduction:

"**Gateway"** is a Node (a Router) on a Network that serves as an Access Point to other Network. Hence, Gateway allows us to enter different Networks to Transmit data back and forth.

This document is an Application Note for the use of the Gateway tab with an example.

## 2. VehicleScape DAQ Gateway

### 2.1 Procedure:

1. Select Measurements → VehicleScape DAQ → Channels.
    - The Channels tab is where signals are selected for logging. In VehicleScape DAQ, the term "Channels" is equivalent to the term "signals" used elsewhere in Vehicle Spy.
    - Select signals from the list. (right click on signal to select priority)
2. Select Measurements →VehicleScape DAQ →Gateway Tab.
3. Select a Gateway Network. (Gateway to transmit message)
   i.e MS CAN/ SW CAN/ HS CAN/HS CAN 2/ HS CAN 3/ SW CAN 2 network.
4. Select 'ArbID Value'.
    - Arb ID of the Gateway network messages start from the selected ArbID value.
    - Check the option Extended (29 Bit) for extended Arb ID.
5. Select the 'Transmit Message Rate (Ms)'.
    - Transmit message rate is whatever you would like.(ex.100ms or 50ms)
6. Select the 'Gateway Logger'. (This uses all the logger settings from Standalone logging tab).
   OR Select the 'Standard Gateway' (if data logging is not required).
7. Select 'Generate Decoding Database' & 'Transfer to SD Card ' from the 'Generate' options.
8. Click on the Generate' Tab, a dialog 'Coremini Executable Generator' will open with the ability to select the hardware and download the Coremini into the neoVI Fire, thus configuring it as a gateway.

 

9. Wait for 2 mins and extract the data from the SD Card from the following location: Tools → Utilities → Extract/Export.
10. Select the 'LOGGER'(SD Card) in source data.

## 2.2 Example:

Gateway the signals from a message on HS CAN network to MS CAN Network.

### 2.2.1 Database setup:

Select the Database/hardware setup Tab. (Figure 1)

- Select Vehiclescape DAQ
- Add the dbc file
- Setup the platform

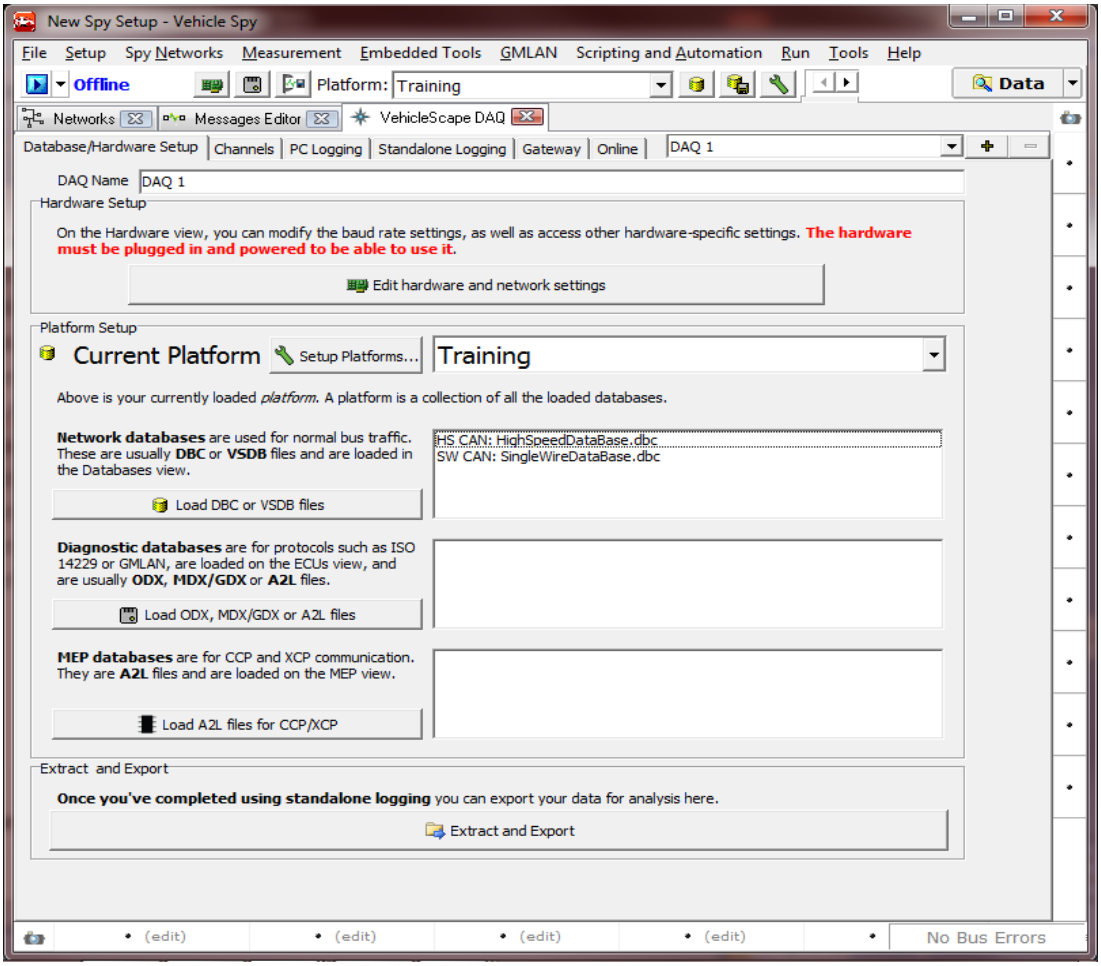


Figure 1: Selection of Database / platform

 

### 2.2.2 **Selection of messages:**

- Select the Channels Tab (Figure 2)
  - Select The Rpm Signal, Temp Signal, Speed Signal
  - Double click on the signals to add them to the list.

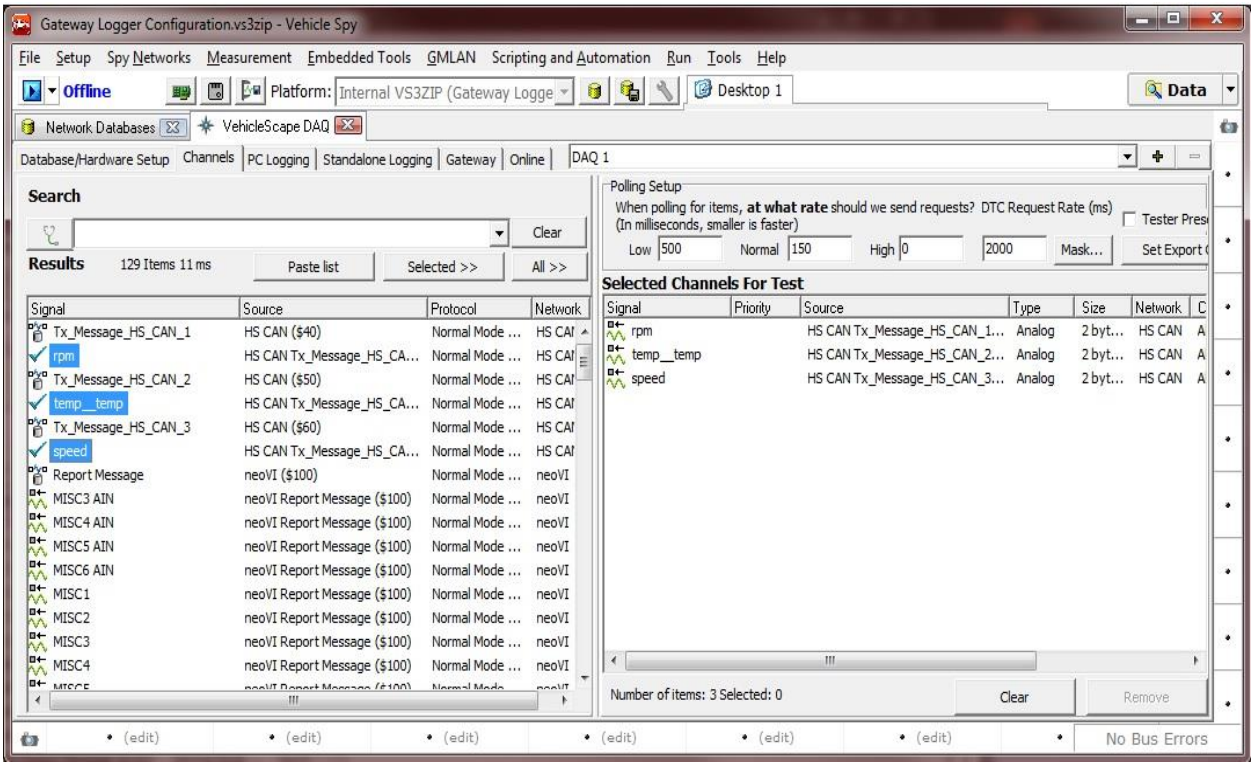


Figure 2: Select the required messages.

 

### 2.2.3 **Standard Gateway Settings**

- Select the Gateway Tab (Figure 3)
  - Select MS_CAN Gateway Network.
  - Add ArbID Value = 100 Hex.
  - Transmit rate = 50 ms.
  - Select ‘Standard Gateway’ option
  - Select Generate For Coremini.
  - Select hardware FIRE.
  - Select option Generate Gateway.

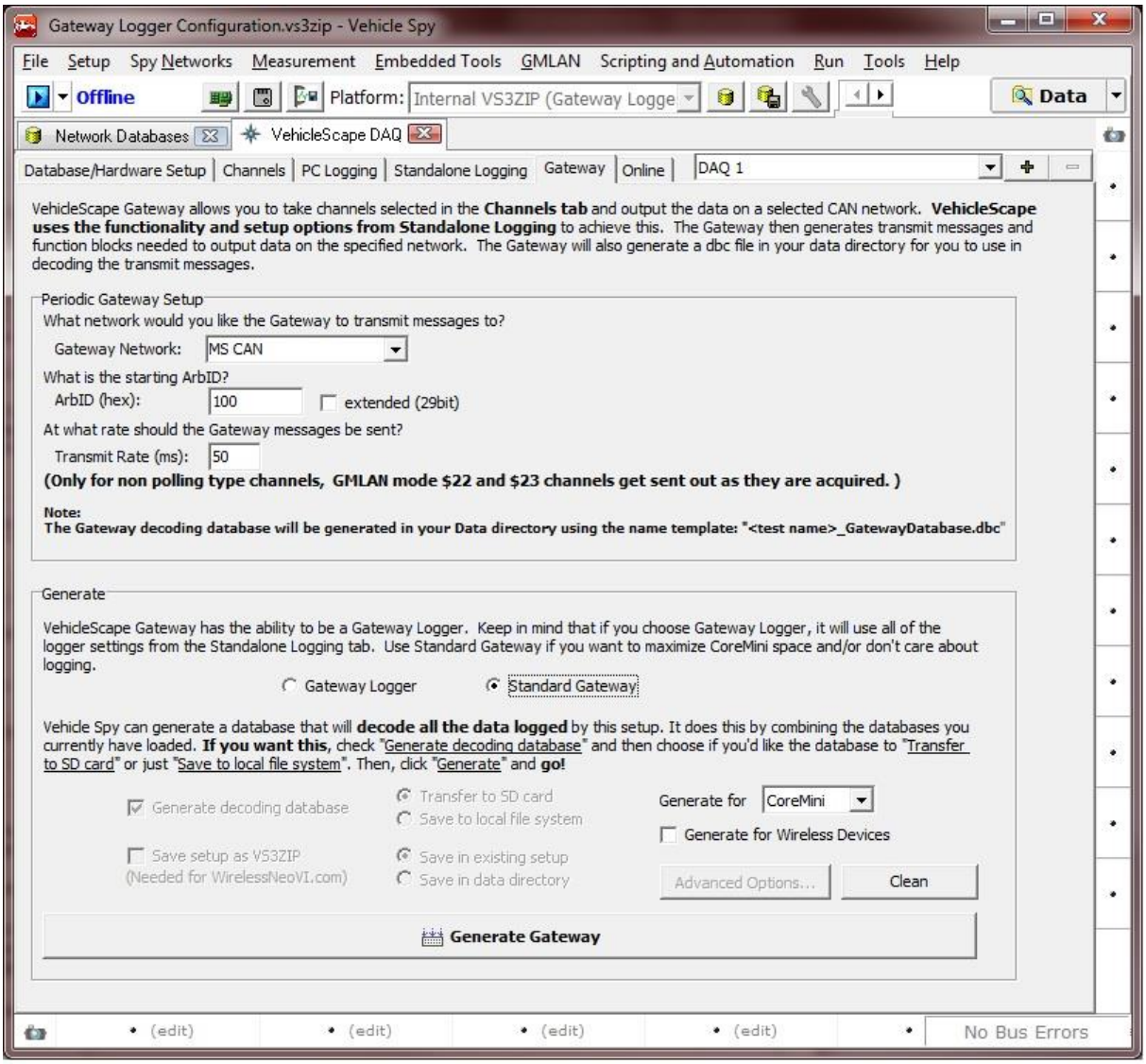


Figure 3: Settings for standard Gateway.

 

### 2.2.4 **Results:**

The message marked with yellow in Fig.4 is the Gateway MS_CAN Message having starting ArbID Value as 100. It transmits values of the 3 signals from HS CAN selected in the Channels tab (Figure 4).

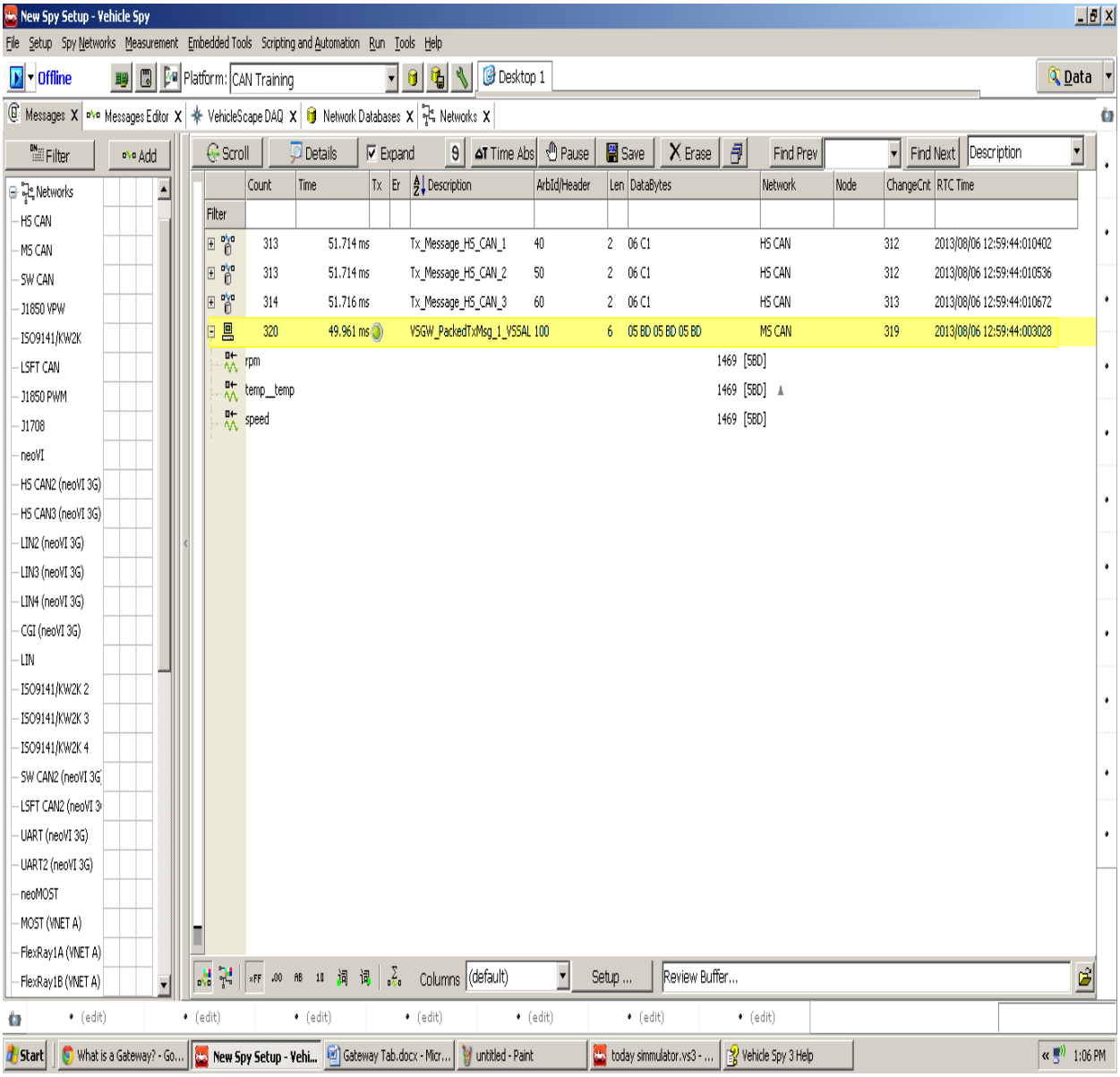


Figure 4: HS CAN signals transmitted on MS CAN

 

## 3. Contact Us:

**Intrepid Control Systems, Inc.**
Email: icsindia@intrepidcs.com
Website: www.intrepidcs.com

 