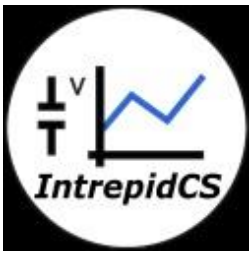


Intrepid Control Systems, Inc.

Log Collections of Messages with Different Rates

Document Number: AN-ICSI-1006

Rev 1.0 06/2014

Contents

1. Introduction:

VehicleScape DAQ can create Standalone Logging scripts to let hardware from Intrepid Control Systems collect data while disconnected from a computer.

This Application Note describes how to configure the standalone logging feature of VehicleScape DAQ to log different collections of messages with different rates.

2. Log Collections of Messages with Different Rates

2.1 Procedure:

2.1.1 Create Platform:

Launch Vspy and Set up a Platform for HS CAN.

- Setup → Network Databases
- Select Networks column on the left.
- Add dbc file to this network, from a tab 'Add' on the right.
- Save the Platform Changes.

2.1.2 Select signals:

Select Measurements → VehicleScape DAQ → Channels.

- Select the 'RPM', 'Speed' & 'Fuel' messages from the list. (Right click on message/signal to select priority)

2.1.3 Configuration for Multiple Collections:

Select Measurements → VehicleScape DAQ → Standalone Logging → Messages, from the tool bar.

1. Select a Collection name as 'Collection 1' and check the box on its side to append Date & Time to the filename. Click on '+' button to add more collections. (Collection 2, Collection3, etc…) check the box to append Date Time to the file name. (Figure 1)

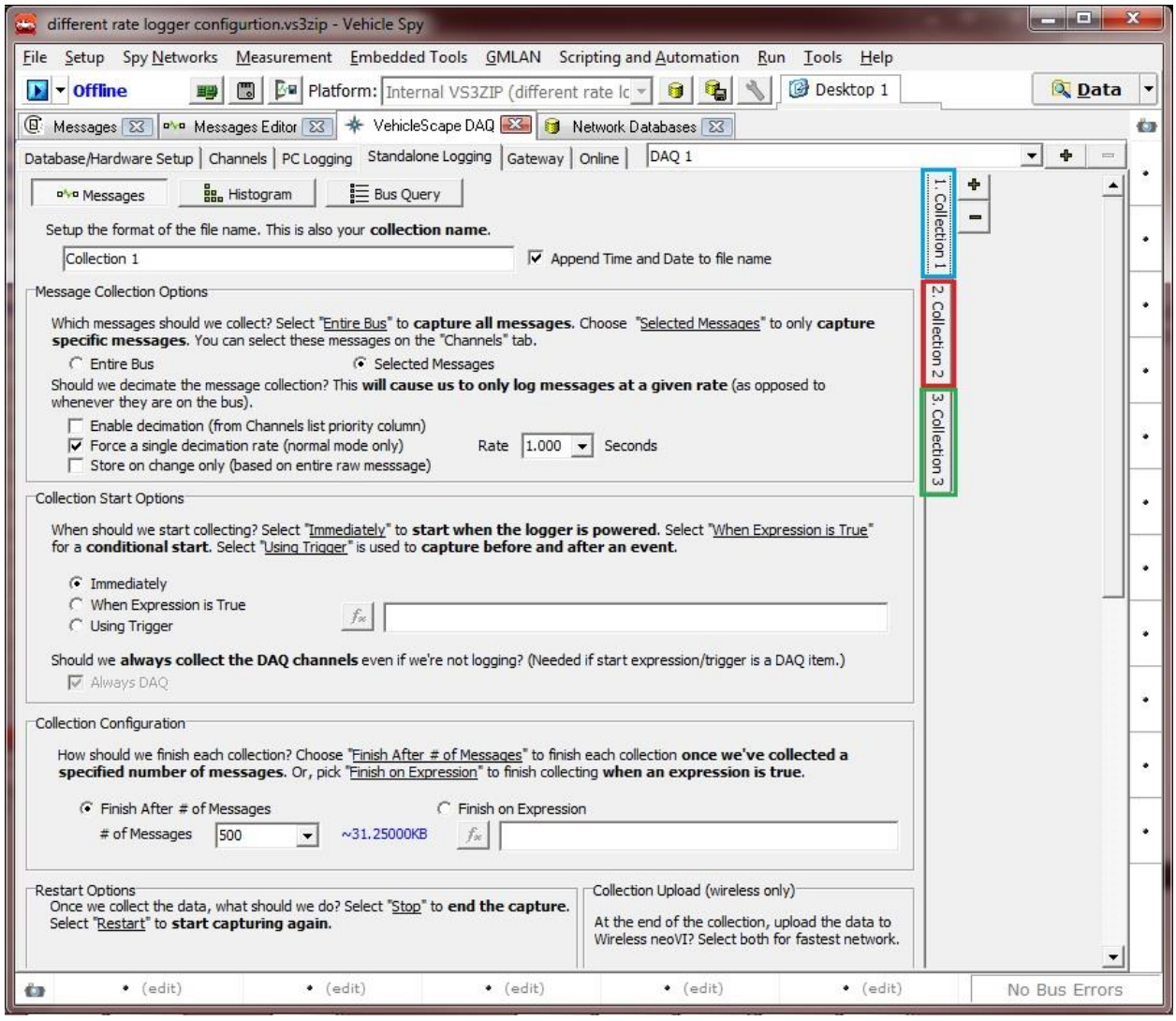


Figure 1: Create different Collections.

2. Select Measurements → Vehiclescape DAQ → Channels.
   - Right click on each selected message/signal from the list to select 'change condition'.
   - Select 'only collect when one of these collections are active' option.
   - Select the collection option. (Click on collection1 or collection 2 or 3.and note that select only one collection to selected signal).
   - Select 'RPM' Signal (Right click on the signal → condition change → only collect when one of these collections are active' → Select Collection1). (Figure 2)
   - Select 'Speed' Signal (Right click on the signal → condition change → only collect when one of these collections are active' → Select Collection2). (Figure 2)
   - Select 'Fuel' Signal (Right click on the signal → condition change → only collect when one of these collections are active' → Select Collection3). (Figure 2)

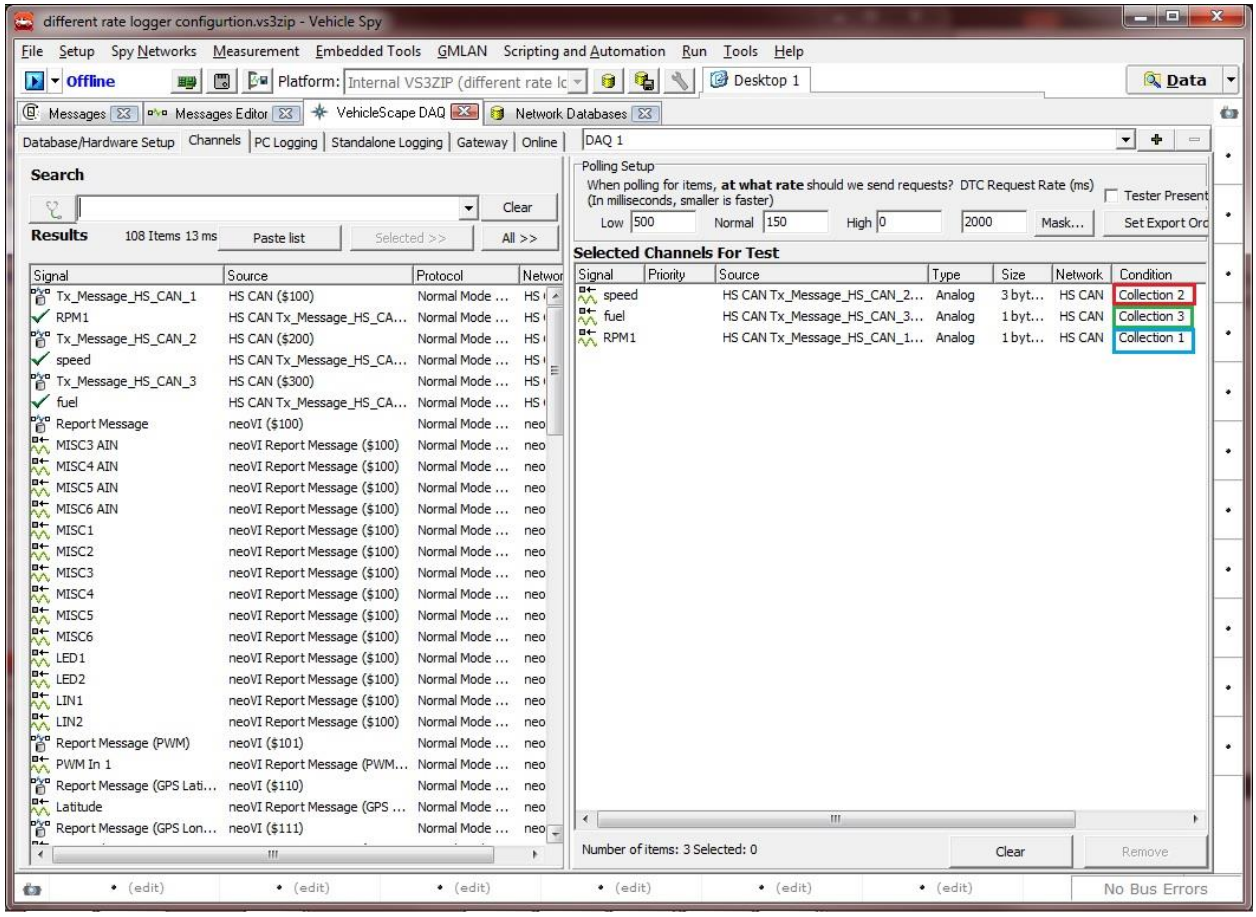


Figure 2: Assign the selected messages to different collections

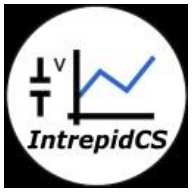
3. Select the 'Selected Messages' option from 'Message Collection Options' and ‘Force a single Decimation (normal mode only)
4. Select the different rate (seconds) for different collection.
5. Configure the Collections as per the required settings i.e. (collection start option and collection configuration option as per requirement of logging).
6. Select 'Forced Restart' from 'Restart Options'.
7. Select 'LEDs' from 'Reporting Options'.
8. Select 'Never’ option.
9. Select 'Generate Decoding Database' & 'Transfer to SD Card ' from the 'Generate' options.
10. Click on the 'Generate' tab, a window, 'coremini Executable Generator' pops up with the ability to select the hardware and download the Coremini into the neovi Fire, thus configuring it as a Standalone Logger.
11. Wait for 5 mins and extract the data from the SD Card by the steps: Tools → Utilities → Extract/Export.
12. Select the SD Card appears as 'LOGGER' in Source data.
13. Select the output path where the Data from the Card is to be extracted.
14. Click on the 'Extract to VSPY binary (.vsb)' tab.

2.2 Results:

The results can be observed by reviewing the Collection files.

Review data by, VSpy → File → Review Buffer → Select the extracted .vsb file.

3. Contact Us:



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

