

# 396-4512Y1 - SENTINEL ECU PROGRAMMING INSTRUCTIONS

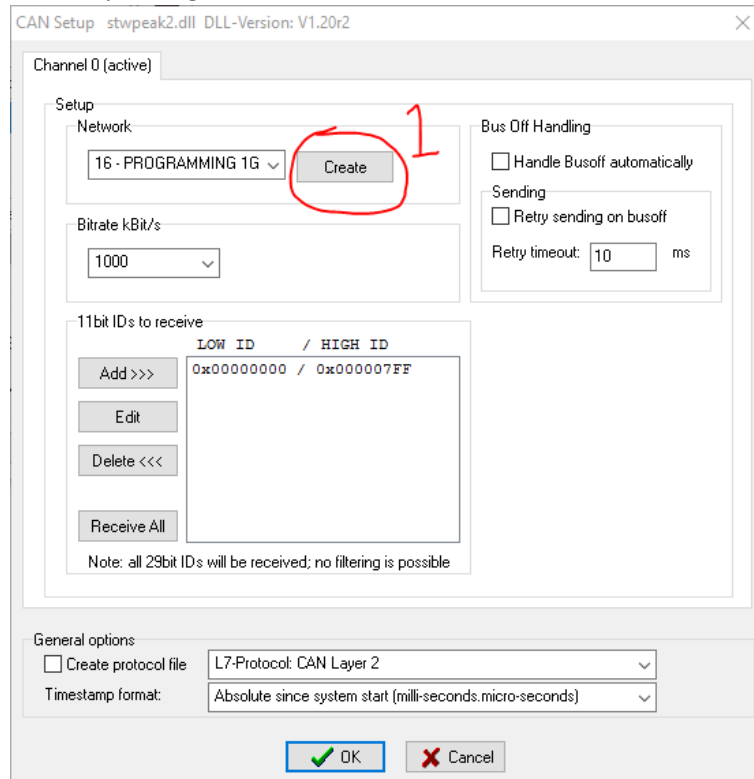
This document explains everything related to updating the software on a Sentinel ECU. The first section explains how to install the software necessary to perform the update, and the next section explains the actual update procedure.

## Setting up the Update Software

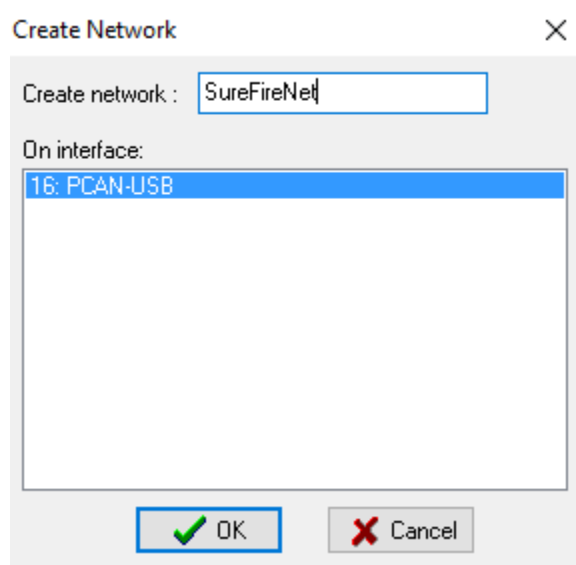
First time installs

- a. Install Sentinel ECU FLASH utility.
  - i. Enter Sentinel ECU Flash Utility folder
  - ii. Run Setup
    1. Press yes on pop up if pops up
    2. Press next
    3. Press next
    4. Press yes
    5. Press Next
    6. Press Next
    7. Make sure PEAK-System Technik GmbH CAN interface is selected
    8. Press Next
    9. Press Yes on Popup
    10. Press Ok
    11. Install PEAK CAN module driver
      - i. Press next
      - ii. Press I agree
      - iii. Press Next
      - iv. Press Next
      - v. Press Next
      - vi. Press Next
      - vii. Should be installing
      - viii. Press Finish
      - ix. Press Ok
    12. Select PCAN USB
    13. Press next
    14. Type SureFireNet into box instead of TestNet
    15. Press Next
    16. Press OK
  - iii. Copy winflash.ini file
    1. On computer go to
      - a. C:\Program Files (x86)\STW\KEFEX Winflash\Winflash
      - b. Copy winflash.ini provided to this folder
- b. Plug CAN Module into Computer and let drivers install( this can take a few minutes)

- c. Run WinFlash(RIGHT CLICK ON WINFLASH and run as ADMINISTRATOR, VERY IMPORTANT!!)
  - i. Now setup driver and file location
    1. Press Select at top of page
    2. Press top configure button



- 3.
4. Press Create
5. Type SureFireNet into the Create Network Box
6. Select Device listed in the On Interface Box
7. Press Ok

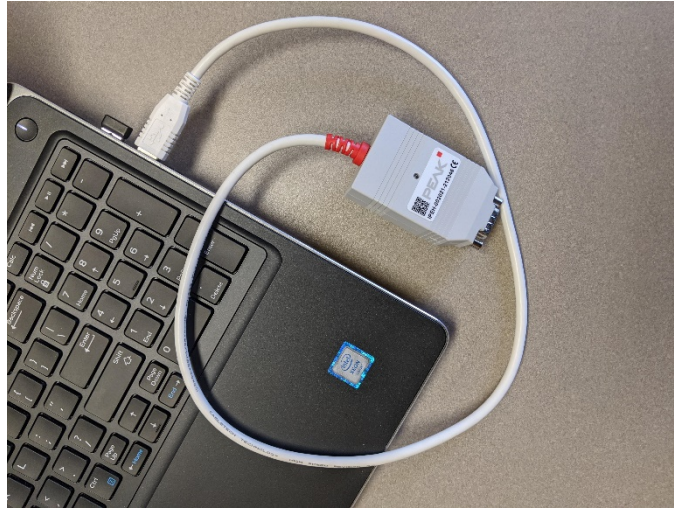


- 8.
9. Press Ok

10. Make sure bit rate is set to 1000
  11. Press Ok to go back to setup
  12. Press OK to go back to main screen
- ii. Now setup file to program
    1. Press select at top next to HEX FILE
    2. Find the ISO Sentinel HEX file on the USB drive
    3. Press ok or open to select
- iii. Computer should be setup now.

## Updating the Sentinel ECU

1. Make sure that the PCAN programming adapter is plugged into the USB on your computer.



a.

2. Find the **Program** Connector on the ECU Harness. It is a 4 pin Deutsch connector.
3. Connect the programming adapter cable between the PCAN usb adapter and **Program** connector on the ECU Harness



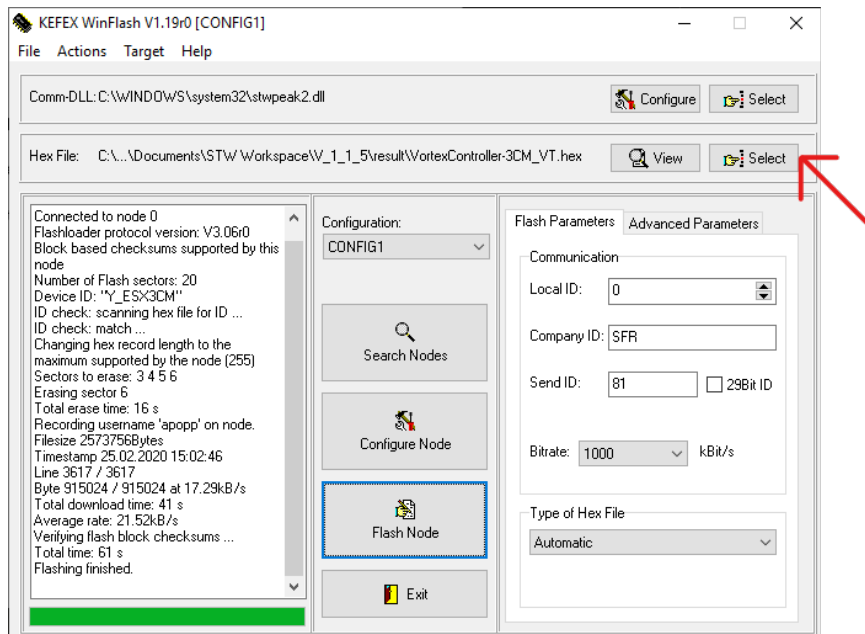
a.

4. Run Winflash



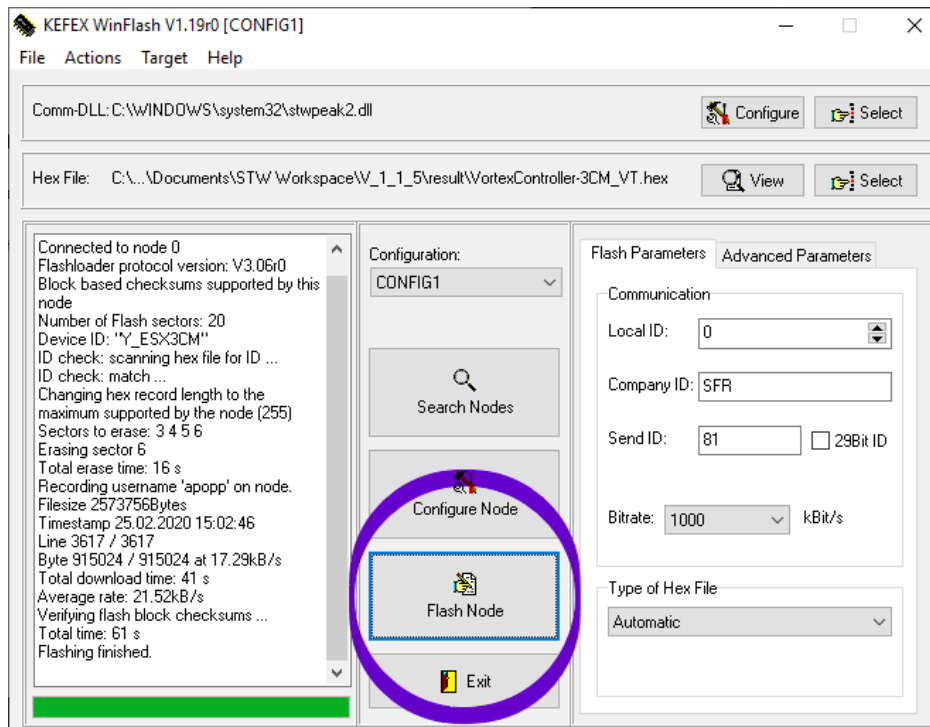
a.

5. Select correct file to load



a.

6. Press Flash Node button



a.

7. Should see resetting node
8. Then should see erasing sectors
9. Then should see programming
10. Then press ok at the end to start the ECU