

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.

First the software needs downloaded from the following links. The first link is for the software used to load the Sentinel ECU Software and the second link goes to the page where the ECU Software can be located. All ECU Software versions are available, so locate the highest version and click to download it because that will be the current release version. This file will have a **.hex** extension. They are located under the Software Update heading.



Sentinel ECU Level 2 3CM

Sentinel ECU Level 1 3CS

Download these to your laptop or to a USB Drive.

http://support.SurePointag.com/media/documents/SENTINEL_ECU_PROGRAMMING.zip

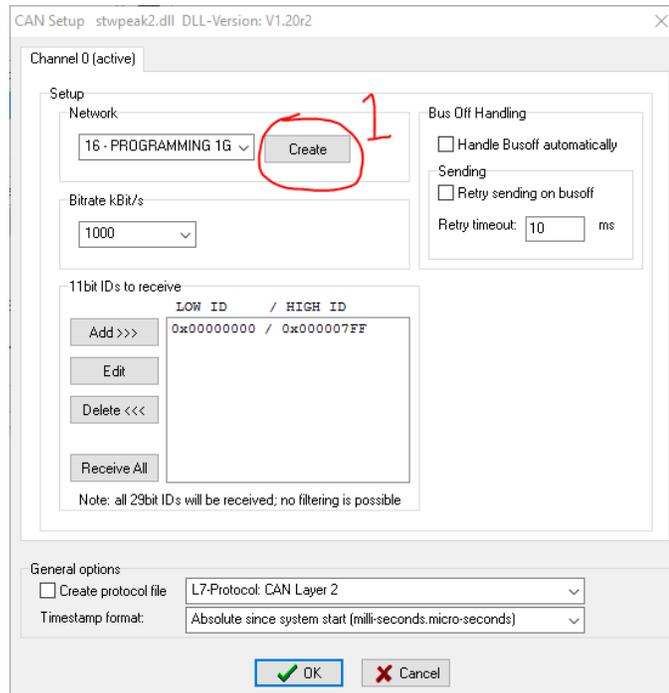
<http://support.SurePointag.com/products/346>

Setting up the Update Software

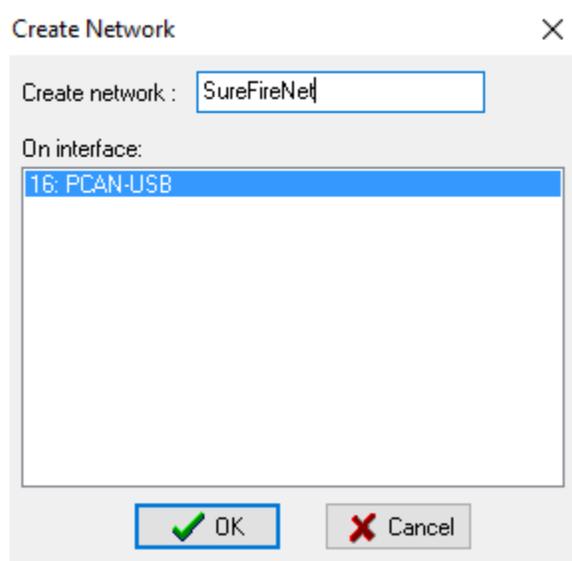
First time installs

- a. Extract the files from the Sentinel ECU Programming.zip file
 - i. Right click on file and select extract all
- b. 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 **SurePointNet** into box instead of **TestNet**
15. Press Next
16. Press OK
- iii. Copy winflash.ini file
 1. On computer go to
 - a. Go to the ECU Programming Software file that you downloaded and unzipped. Copy the *winflash* file that is here (configuration settings)
 - b. Go to C:\Program Files (x86)\STW\KEFEX Winflash\Winflash
 - c. Overwrite winflash.ini in this folder with the *winflash* file that you just copied. (Copy and paste from ECU Programming Software unzipped file to this file in Program Files (x86)).
 - c. Plug CAN Module into Computer and let drivers install (this can take a few minutes)
 - i. It will not look like the computer is doing much, but after a minute a message that says device installed in the lower corner of the screen should appear. If this message does not appear, continue to next step after a minute.
 - d. 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 **SurePointNet** 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 or the folder on your computer where you saved it
 3. Press OK or open to select
 - iii. Computer should be set up now.

Updating the Sentinel ECU

1. Make sure that the PCAN programming adapter is plugged into the USB on your computer. Be sure the Sentinel ECU is powered on (2 green lights by harness connector).



a.

2. Find the **Program** Connector on the ECU Harness. It is a 4 pin Deutsch connector.
3. Connect the programming adapter cable (212-02-3579Y1) between the PCAN USB adapter and **Program** connector on the ECU Harness



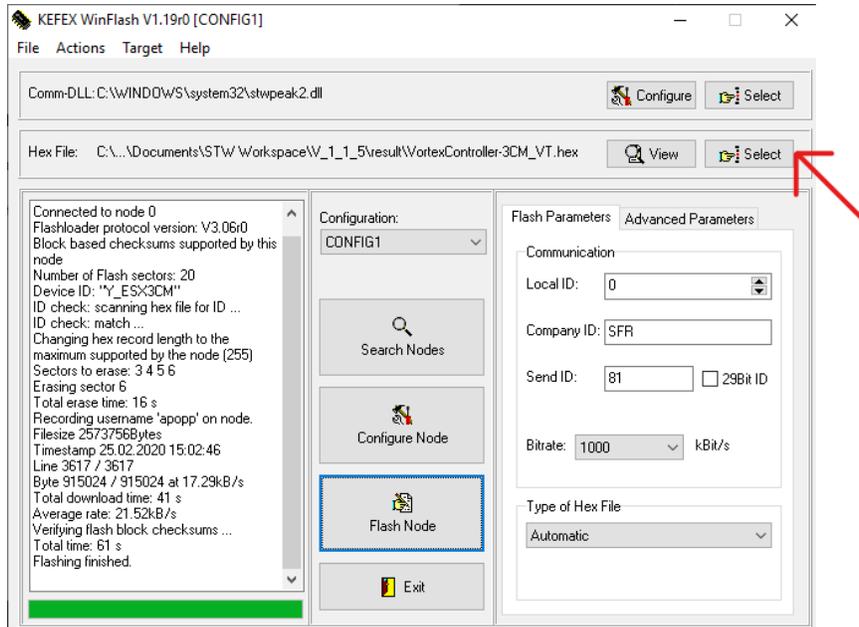
a.

4. Run Winflash



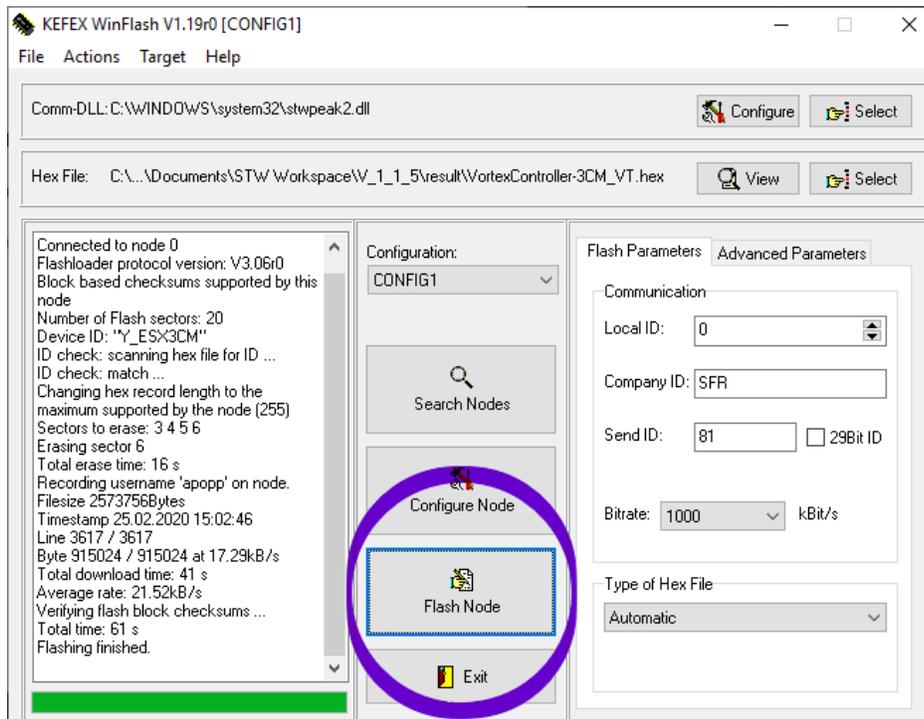
a.

5. Select correct file to load. Verify Bitrate is 1000.



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.
11. If things aren't right after software update, restore the system to **Default Settings**. Press SurePoint Logo icon > press on Sunburst > Auxiliary Settings Screen > **Default Settings**.