How to load DUTCH*Star Firmware to a Star*Board

*Note: Your Star*Board was shipped with the firmware installed, so you do not need to load the firmware when you receive the board.   This information may be useful if DUTCH*Star releases an updated version of the firmware sometime in the future.*

A. Get new version of firmware
1. If emailed to you, save the hex file where you can find it
2. If you need to download it:
    o   Go to DUTCH*Star website: http://www.dutch-star.eu – Click Log In button
    o   Log into your account with your callsign and password
    o   On the left, click on "My Account"
    o   Towards the top, click on "Licenses"
    o   You will see a line starting with an "X" followed by the icon for a diskette**. Click the diskette icon**
    o   "Save As" to save the .hex file to a folder where you can find it again
    o   Log off

B. If updating a working board, save the current firmware settings (Loading firmware will reset firmware settings)
1. Plug board into PC and run NAWinCFG
2. Copy down key settings on the main window: Delay Time, AutoPolarity (normally not checked), RX Invert, TX Invert.
3. Click Mode button and copy down settings.
4. Exit program and unplug board from PC.

C. To load the firmware, do the following:
1. Move the jumper from SW3 to the Program header pins (look at layout on the back of the Star*Board manual)
2. Plug in the USB cable to the board and your PC
3. You should hear a Windows sound about a new USB device being plugged in. If you want, you could check the Device Manager and see a new HID or Human Interface Device. Unplug the USB cable and it goes away. Plug it back in.
4. Start up NAWinCFG. It will say **"Node adapter not detected". This is normal** at this stage.
5. Go to Tools and select Update Firmware
6. **Click "Browse" and navigate to the folder where you saved the .hex firmware file. Select it**.
7. **Check the "Update EEProm data" box**
8. Click the UPDATE button
9. It should update and finish with a message saying it was successful
10. Exit NAWinCFG and unplug the USB cable
11. Move the jumper from Program pins back to SW3
12. Plug in the USB cable and start up NAWinCFG
13. It should "see" the node adapter.

D. Configure firmware settings using NAWinCFG:
14. If updating working board, change settings to what you wrote down in step B. For a new board, refer to recommended settings at http://www.moencomm.com/SBsettings.htm
15. Since that screenshot, I now suggest you set Delay Time to 250 msec. The Mode Settings are important: check only CRC Check, Last Frame, RSSI Report (and Half Duplex if you are operating simplex with one radio)
16. Save and exit NAWinCFG. You are now ready to test using NAWinTEST