

HOW TO UPDATE DFF1 SOFTWARE WITH PC

IMPORTANT NOTE: DFF1 sounders with older software must first be updated to v2.01 or v2.02 before updating to v2.04 or above

To update the software, you will need a PC, a HUB, two straight regular Ethernet cables (one from the PC to the hub, and one from the hub to the DFF1), and the newest DFF1 software.

These instructions are for Win2000 or XP

- 1) Download the software Zip file and place it on your desktop.

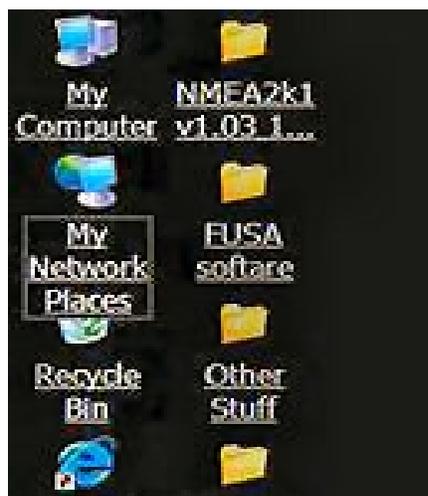
After unzipping the downloaded zip file, you will find two folders. One will be a check version program folder allowing you to run “chkver” to check the version of the DFF1 prior to beginning. The other folder will be the needed software for updating the unit via the LAN/Ethernet. The unit must be at 2.01 or higher for this procedure. If the software loaded is older, please contact technical support.

- 2) Change the IP address of your computer so it can communicate with the DFF1.

IP address: **172.31.72.29**

Subnet mask: **255.255.0.0** Default
gateway: blank

To change the IP address, on your desk top, RIGHT CLICK on “MY NETWORK” (for other versions of Windows OS, check google for instructions of changing your computer IP address)



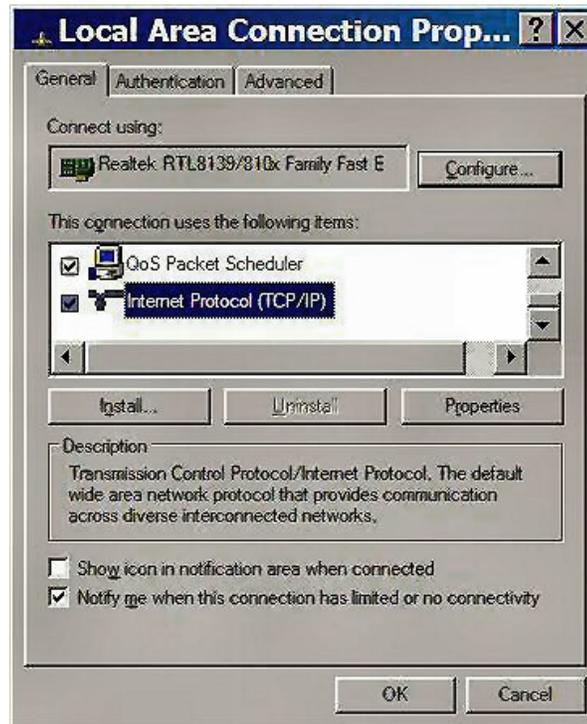
Then LEFT CLICK on "PROPERTIES"



Then RIGHT CLICK on "LOCAL AREA CONNECTION"
And then again, LEFT CLICK on "PROPERTIES"



LEFT CLICK on "INTERNET PROTOCOL (TCP/IP) (this will highlight it)
Then on that same page LEFT click "PROPERTIES"



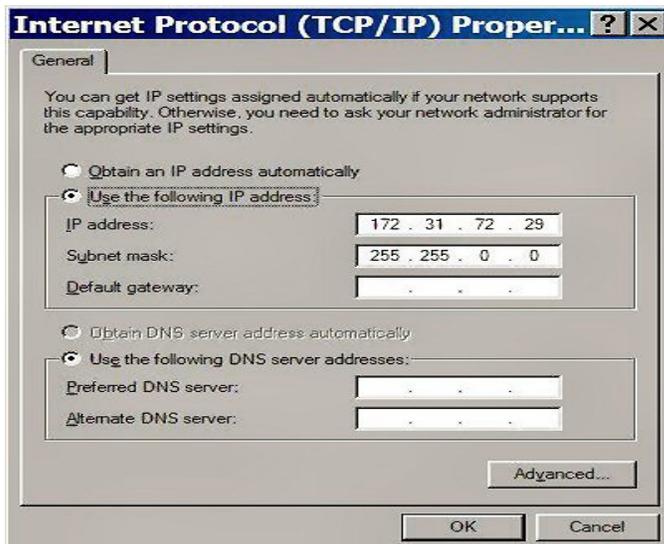
Page 3 At this point, write down the values that are already here for the IP address and the subnet mask, so that you can return them to these values when you are finished.

Then enter the new values needed for communicating with the DFF1.

IP address: **172.31.72.29**

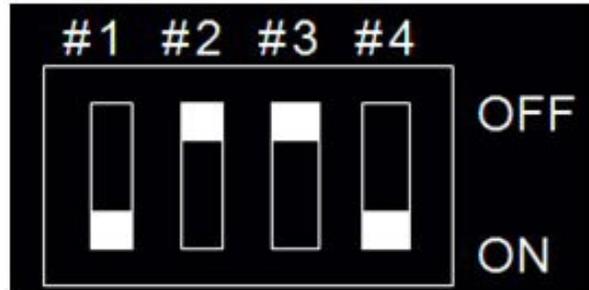
Subnet mask: **255.255.0.0** Default

Gateway: blank



Click OK when finished and close all windows.

- 3) On the DFF1 make sure the dip switch settings under the rubber cap are set the same as shown in the picture below. Note previous settings if different.



- 4) Connect the DFF1 to the power source and to the computer. Note that the power light is on.

Check what software is currently loaded in the DFF1

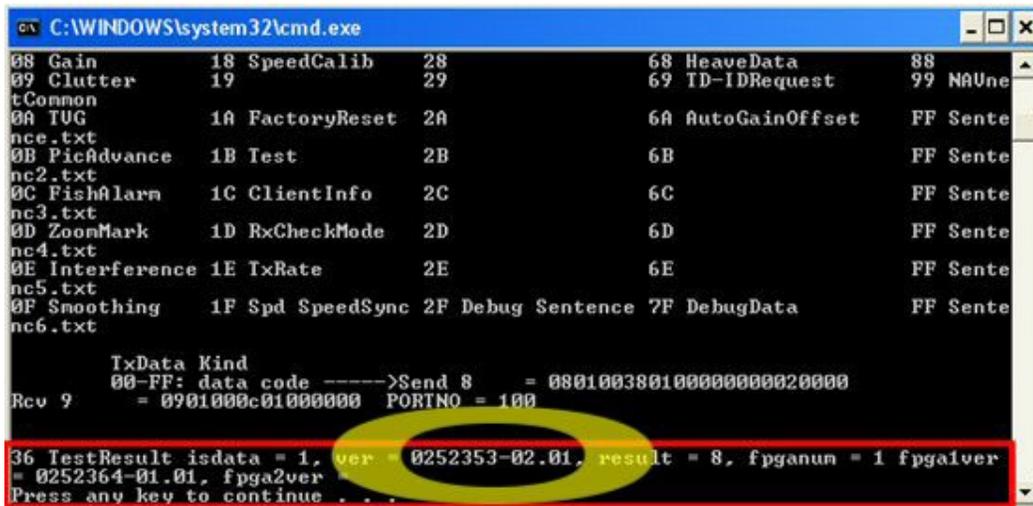
- 5) To check the software version, open the “**check_ver**” folder on the PC desk top and run the “**Start_Chkver.bat**” file.

The following DOS window will open.

```
C:\WINDOWS\system32\cmd.exe
01 ModeInfo      11 STCCurve      21 KpPulseWidth  61 HeaveCompensation 81
02 NormRange    12 DepthUnit    22 Restart EIR   62 HeaveCalib      82
03 NormShift    13 Draft        23 Demonstrate   63 TimeAdjustHeaving 83
04 ZoomRange    14 PowerReduct  24 FreqAdjust    64 BottomArea     84
05 ZoomShift    15 ExternalKp   25 FreqMenuType  65 WhiteLine      85
06 ZoomRangeBL  16 SoundSpeed   26 Transducer    66 FishLevelCalib  86
07 Auto         17 TempCalib    27              67 AttitudeData   87
08 Gain         18 SpeedCalib   28              68 HeaveData      88
09 Clutter      19              29              69 ID-IDRequest   99 MAUne
tCommon
0A TUG          1A FactoryReset 2A              6A AutoGainOffset FF Sente
nce.txt
0B PicAdvance  1B Test         2B              6B              FF Sente
nc2.txt
0C FishAlarm   1C ClientInfo   2C              6C              FF Sente
nc3.txt
0D ZoomMark    1D RxCheckMode  2D              6D              FF Sente
nc4.txt
0E Interference 1E TxRate       2E              6E              FF Sente
nc5.txt
0F Smoothing   1F Spd SpeedSync 2F Debug Sentence 7F DebugData     FF Sente
nc6.txt

TxData Kind
00-FF: data code ----->
```

In 1 to 15 seconds the data in the DOS window will change to this display



```
C:\WINDOWS\system32\cmd.exe
08 Gain          18 SpeedCalib  28          68 HeaveData  88
09 Clutter      19            29          69 TD-IDRequest 99 NAUne
tCommon
0A TUG          1A FactoryReset 2A          6A AutoGainOffset FF Sente
nce.txt
0B PicAdvance  1B Test        2B          6B            FF Sente
nc2.txt
0C FishAlarm   1C ClientInfo  2C          6C            FF Sente
nc3.txt
0D ZoomMark    1D RxCheckMode 2D          6D            FF Sente
nc4.txt
0E Interference 1E TxRate      2E          6E            FF Sente
nc5.txt
0F Smoothing   1F Spd SpeedSync 2F Debug Sentence 7F DebugData  FF Sente
nc6.txt

TxData Kind
00-FF: data code ----->Send 8 = 08010038010000000020000
Rcv 9 = 0901000c01000000 PORTNO = 100

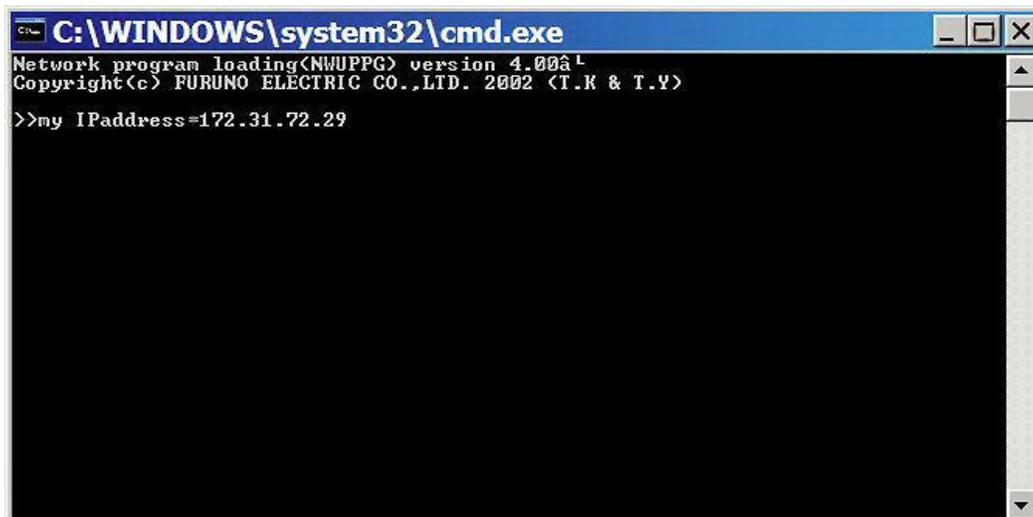
36 TestResult isdata = 1, ver = 0252353-02.01, result = 8, fpgaunum = 1 fpgaiver
= 0252364-01.01, fpga2ver
Press any key to continue . . .
```

If the check shows version 1.02, then update to v2.01 or v2.02 before updating to v2.04 or higher.

Update the DFF1

- 1) Unplug the DFF1's power cord but leave the network cable connected.
- 2) Open the software update folder, and start the "UPNET.bat" file.

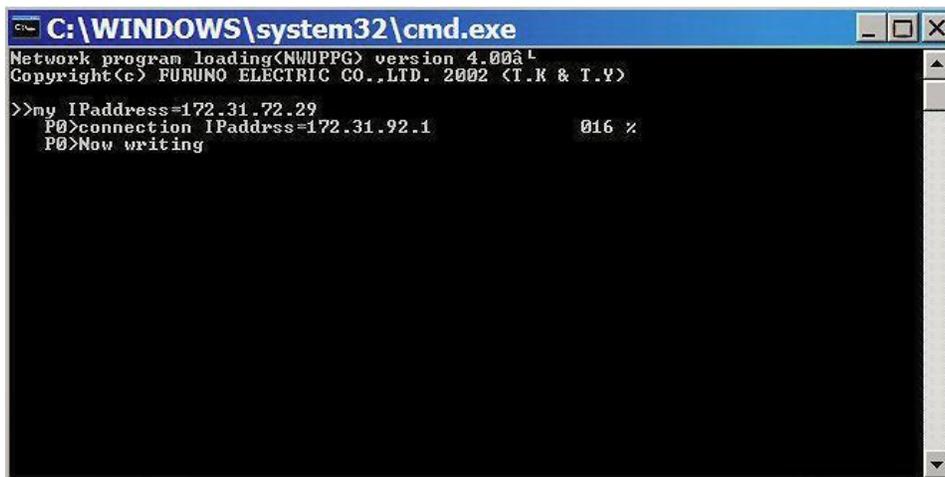
This DOS window will open.



```
C:\WINDOWS\system32\cmd.exe
Network program loading(NWUPPG) version 4.00
Copyright(c) FURUNO ELECTRIC CO.,LTD. 2002 (T.R & T.Y)
>>my IPaddress=172.31.72.29
```

3) Plug the power back into the DFF1.

After 1 to 15 seconds data in the DOS window will progress to this display



```
C:\WINDOWS\system32\cmd.exe
Network program loading(NWUPPG) version 4.00â
Copyright(c) FURUNO ELECTRIC CO.,LTD. 2002 (T.K & T.Y)
>>my IPaddress=172.31.72.29
P0>connection IPaddress=172.31.92.1          016 %
P0>Now writing
```

Update progress is measured in percentages, and will remain at 000 for a few moments while the current software is erased. Once the update begins it will take about 15 seconds. When the update is finished the PC will beep.

Note that the DOS text tells us we have loaded xx.x software
Close this window by pressing any key.
The power and network cable remain connected.

Next, go back and open up the check_ver folder again and once again run the
“**Start_Chkver.bat**” file, and verify that the software update was completed correctly.

Close all windows.

Remove Power from DFF1

Return the PC's TCP/IP Settings and DFF1 dip switch settings to original values.

Remove PC and put DFF1 back into original configuration for normal operations.

--END--