

# 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.

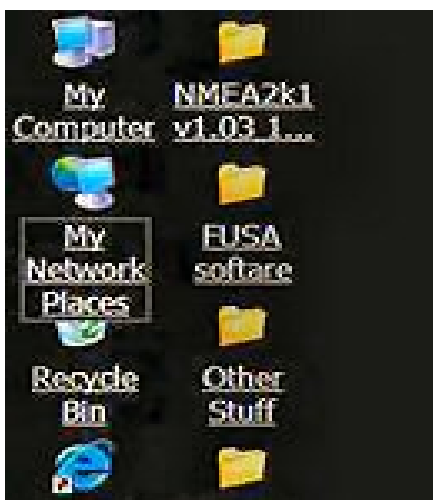
After unzipping the downloaded zip file, you will find two folders. One will be a check version program folder allowing you to run “chkver” to check the version of the DFF1 prior to beginning. The other folder will be the needed software for updating the unit via the LAN/Ethernet. The unit must be at 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)



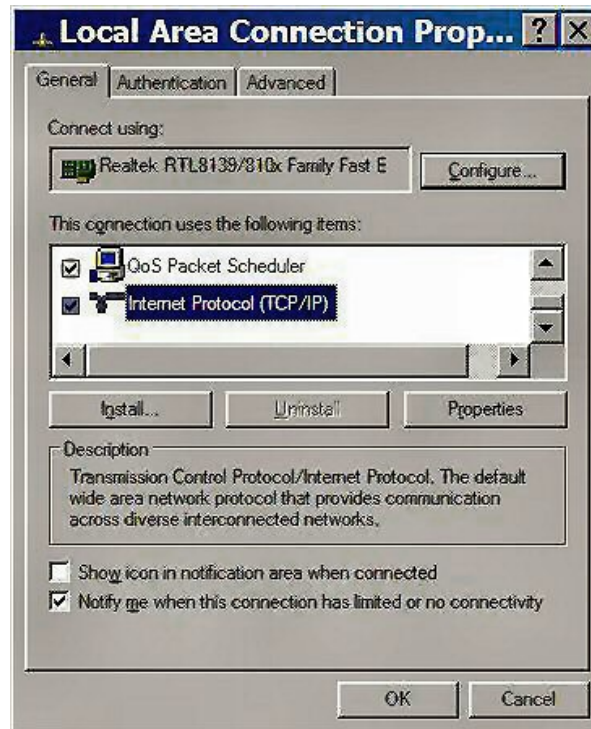
Then LEFT CLICK on "PROPERTIES"



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"



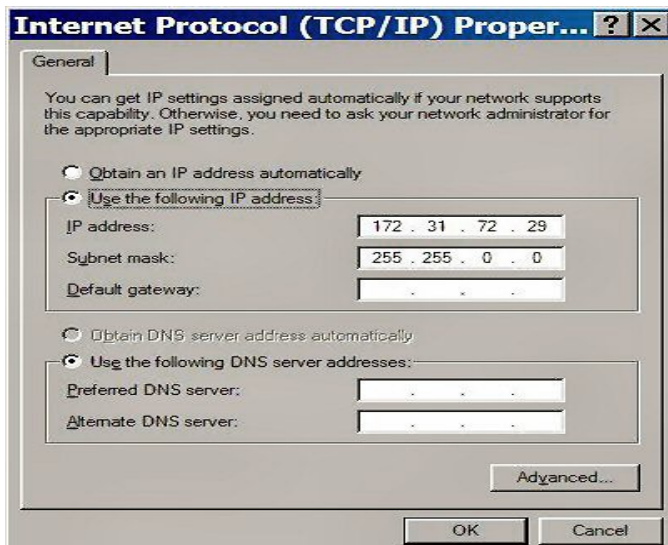
Page 3 At this point, write down the values that are already here for the IP address and the subnet mask, so that you can return them to these values when you are finished.

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

IP address: **172.31.72.29**

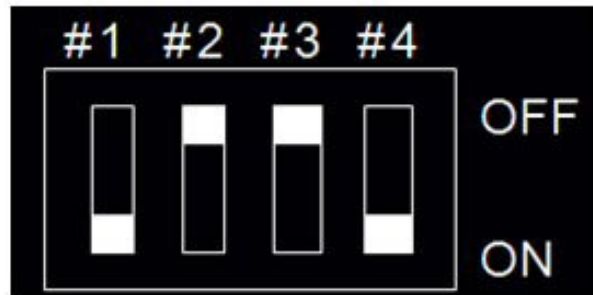
Subnet mask: **255.255.0.0** Default

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

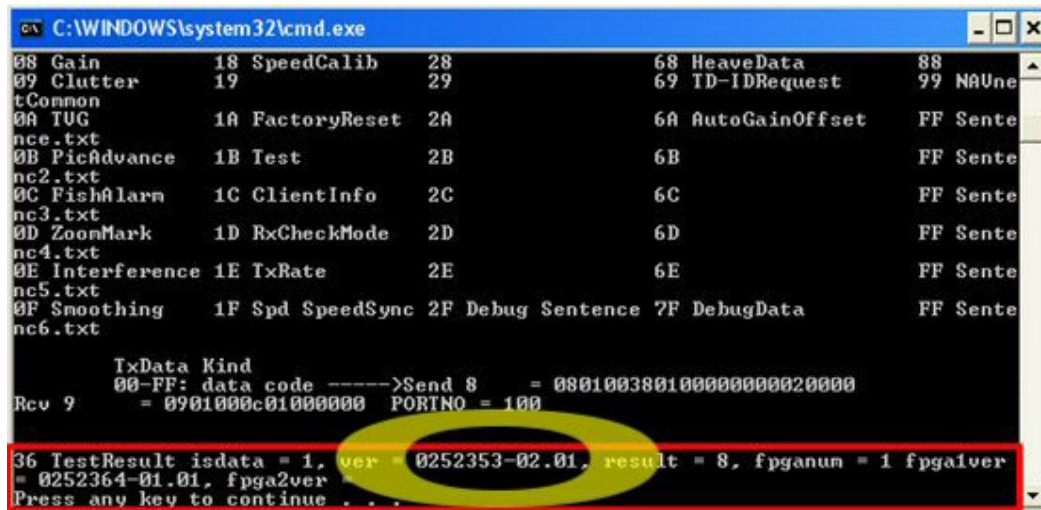
- 5) To check the software version, open the “**check\_ver**” folder on the PC desk top and run the “**Start\_Chkver.bat**” file.

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 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 ----->
```

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 ID-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 = 080100380100000000020000
Rcv 9 = 0901000c01000000 PORTNO = 100

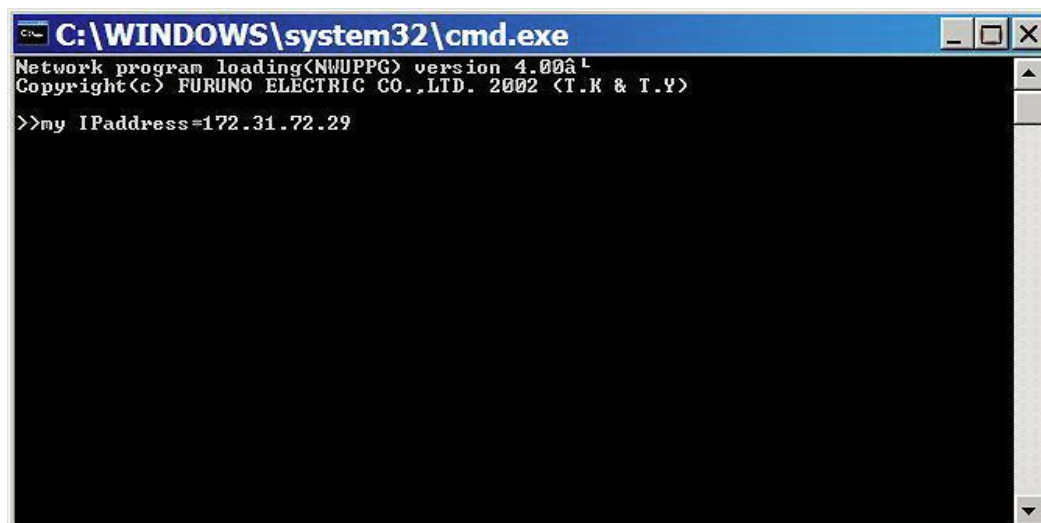
36 TestResult isdata = 1, ver = 0252353-02.01, result = 8, fpganum = 1 fpga1ver
= 0252364-01.01, fpga2ver
Press any key to continue . . .
```

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.

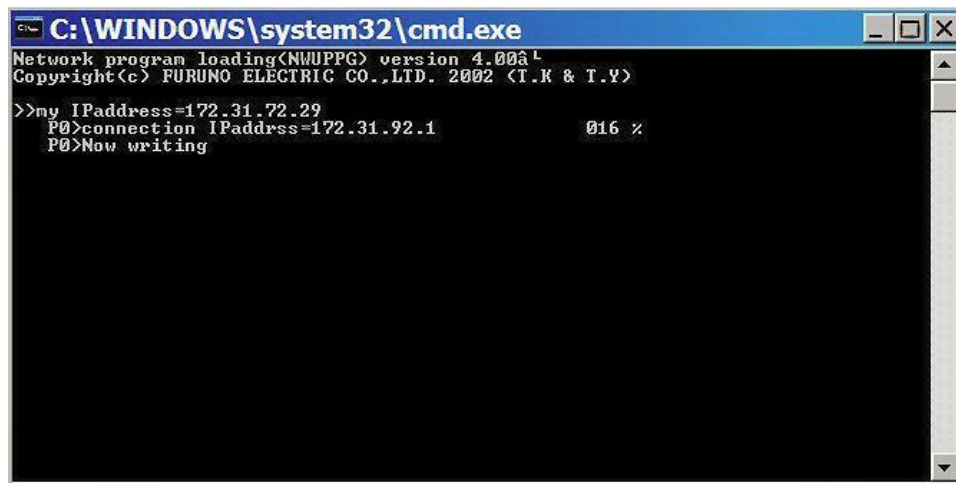


```
C:\WINDOWS\system32\cmd.exe
Network program loading(NMUPPG) version 4.00
Copyright(c) FURUNO ELECTRIC CO.,LTD. 2002 (T.R & T.Y)

>>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

A screenshot of a DOS command window titled "C:\WINDOWS\system32\cmd.exe". The window has a blue title bar and standard Windows 95-style window controls. The text inside the window is as follows:

```
Network program loading<NMUPPG> version 4.00â
Copyright(c) FURUNO ELECTRIC CO.,LTD. 2002 (T.K & T.Y)
>>my IPaddress=172.31.72.29
P0>connection IPaddrss=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--