

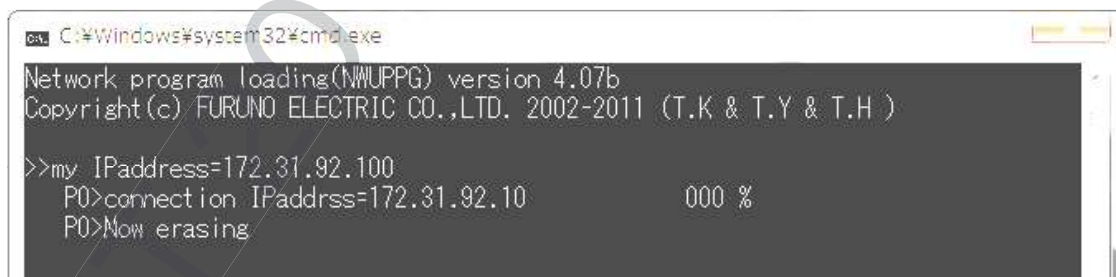
1. How to update the software with a PC

1.1. Preparations

- PC Windows 7 (32 bit/64 bit) or Windows XP
- Prepare either (1) or (2) shown below.
 - (1) Cross LAN cable: 1
 - (2) Switching HUB: HUB101 is recommended.
Straight LAN cable: 2

1.2. Procedure

- (1) Unzip the two types of the ZIP files in a new folder of your PC.
After the files are unzipped, the following files are saved in the folder.
Do not move them from the folder when using them.
 - 0252440-1.bin
 - 0252440-2.bin
 - IDCODE.SYS
 - Loader.bin
 - nwuppg.exe
 - update.bat
- (2) Change the TCP/IP configuration of the PC as follows.
 - IP address: 172.31.xxx.yyy
 - xxx: Select numbers from 2 to 254; however, exclude 92.
 - yyy: Select numbers from 2 to 254.
 - Subnet mask: 255.255.0.0
 - Default gateway: Blank
- (3) Connect the PC and the DFF-3D with a cross LAN cable.
Alternatively, connect them via the switching HUB with straight LAN cables.
- (4) Double-click the file: `update.bat`, and turn on the DFF-3D.



```
C:\Windows\system32\cmd.exe
Network program loading(NWUPPG) version 4.07b
Copyright(c) FURUNO ELECTRIC CO.,LTD. 2002-2011 (T.K & T.Y & T.H )
>>my IPaddress=172.31.92.100
P0>connection IPaddrss=172.31.92.10 000 %
P0>Now erasing
```

- (5) The software update is started. After approximately 1 min, the progress shows 100%, and the software update is completed.

```

C:\Windows\system32\cmd.exe
Network program loading(NWUPPG) version 4.07b
Copyright(c) FURUNO ELECTRIC CO.,LTD. 2002-2011 (T.K & T.Y & T.H )

>>my IPAddress=172.31.92.100
  PO>connection IPAddrss=172.31.92.10      100 %
  PO>finish upload program. (size=3781342)
  続行するには何かキーを押してください . . .
  
```

- (6) Press any key to terminate the program.
 (7) Run “EtrVersionChecker.exe”, and then check the software version of the DFF-3D.

```

D:\projects\DFF-3D\svn\trunk\src\NavNetLibrary\NAVnet4\VS2010\Release\EtrVers...
*-- EtrVersionChecker Ver.1.1 --*

Getting IP Address ... OK (172.31.92.100)
Initializing Modules ... OK
Checking Sounders ... - Hold [Esc] key to exit.

IpAddress : 172.31.92.10
ModelName : DFF-3D
NickName : DFF-3D
HostName : ES092010
SoftVer : 01.04:01.02:01.01
ModelVer : 01
  
```

2. How to update the software with the TZT/TZT2

2.1. Preparations

(1) Firmware

0252440-1.bin
 0252440-2.bin
 DFF-3D.ce.fui
 DFF-3D.xp.fui
 IDCODE.SYS
 Loader.bin

(2) Uploader and Launcher

The TZT requires only Uploader.

The TZT2 requires Uploader and Launcher.

(3) SD card: SD/SDHC/SDXC can be used.

However, free space of approx. 20 MB is required.

For the TZT2, use a USB flash memory because a SD card cannot be used.

(4) Save the software in a SD card (for TZT2, USB memory).

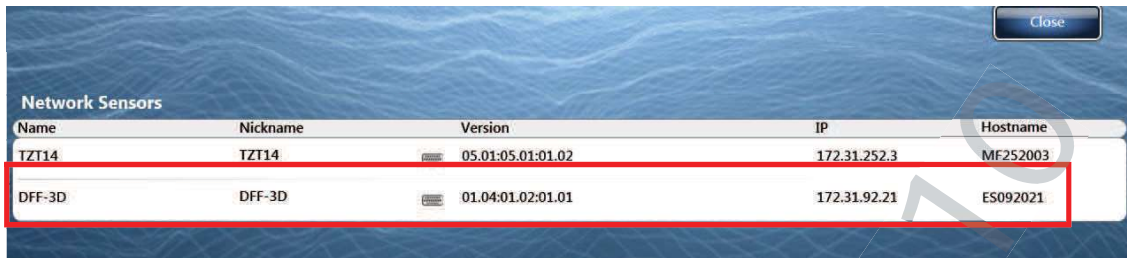
Save the software of Firmware and Uploader on the route.

└ uploader	Folder
└ └ DFF-3D	Folder
└ └ └ 0252440-1.bin	Firmware
└ └ └ 0252440-2.bin	Firmware
└ └ └ DFF-3D.ce.fui	Firmware
└ └ └ DFF-3D.xp.fui	Firmware
└ └ └ IDCODE.SYS	Firmware
└ └ └ └ Loader.bin	Firmware
└ └ DllController.exe	Uploader
└ └ DllController_MFD.exe	Uploader
└ └ ewfapi.dll	Uploader
└ └ InitialDll.dll	Uploader
└ └ InitialDll_MFD.dll	Uploader
└ └ IUploader.exe	Uploader
└ └ IUploader_MFD.exe	Uploader
└ └ MaxSea.Porting.Mfd.dll	Uploader
└ └ N2KUploader.exe	Uploader
└ └ N2KUploader_MFD.exe	Uploader
└ └ NN3DllsForN2KUploader.dll	Uploader
└ └ NN3DllsMFDForN2KUploader.dll	Uploader
└ └ NwuppgCE.dll	Uploader
└ └ NwuppgXP.dll	Uploader
└ └ nwuppg_windowsce.exe	Uploader
└ └ nwuppg_windowsxp.exe	Uploader
└ └ sDHCPServer.conf	Uploader
└ └ └ sDHCPServer.exe	Uploader
└ focusbauth.dat	Uploader launcher
└ focusbcode.dat	Uploader launcher
└ password.bin	Uploader launcher
└ └ UsbLaunchTest.apk	Uploader launcher

2.2. Procedure

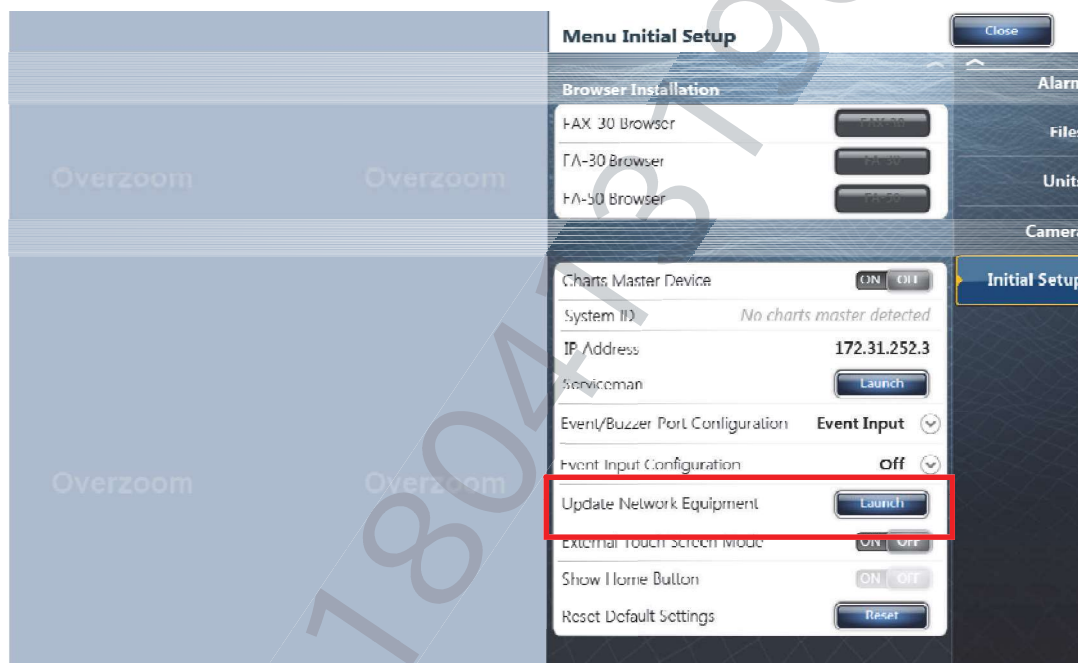
(1) Turn on the TZT.

Select [Menu]-[Initial Setup]-[Sensor List], and check that the DFF-3D is connected.

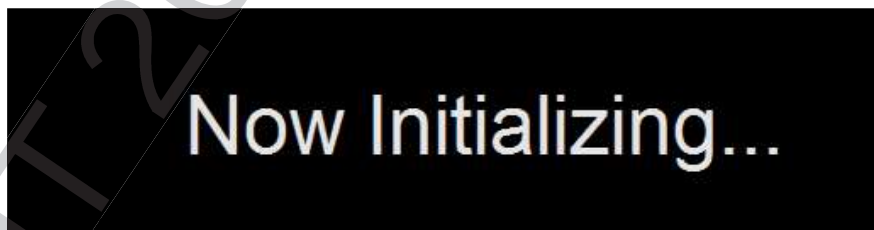


Name	Nickname	Version	IP	Hostname
TZT14	TZT14	05.01:05.01:01.02	172.31.252.3	MF252003
DFF-3D	DFF-3D	01.04:01.02:01.01	172.31.92.21	ES092021

(2) Insert the SD card (for TZT2, USB memory), and select [Menu]-[Initial Setup]-[Update Network Equipment].



(3) After the message “Now Initializing...” appears, wait until the message disappears.

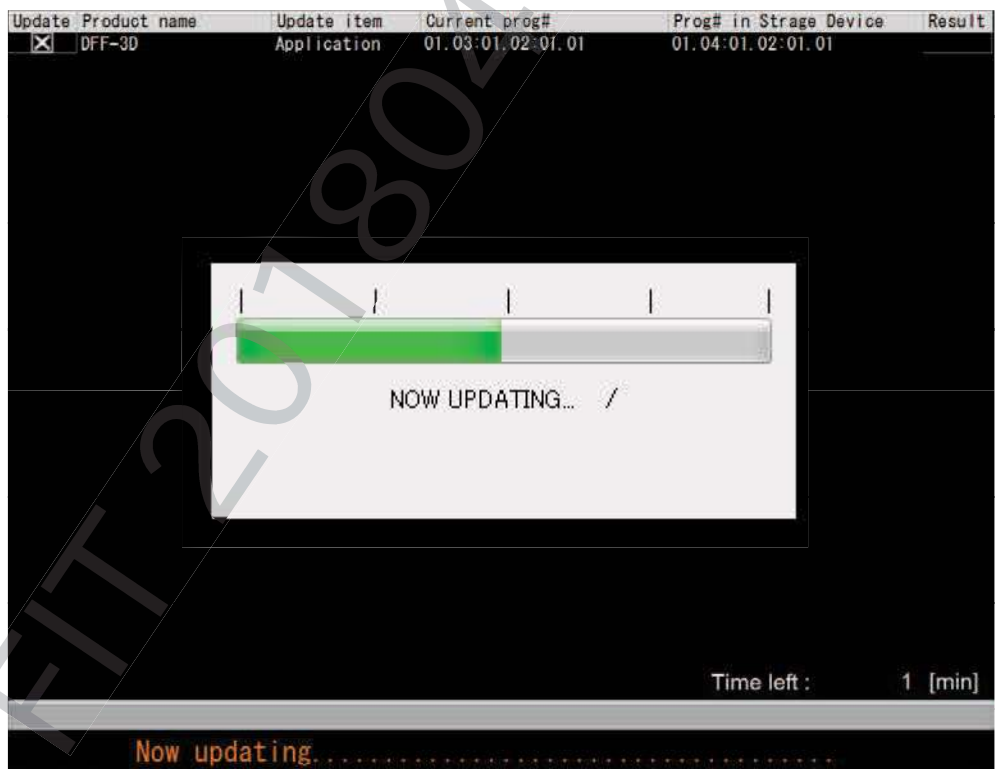


Now Initializing...

(4) After “DFF-3D” is displayed in the list, click [Start].

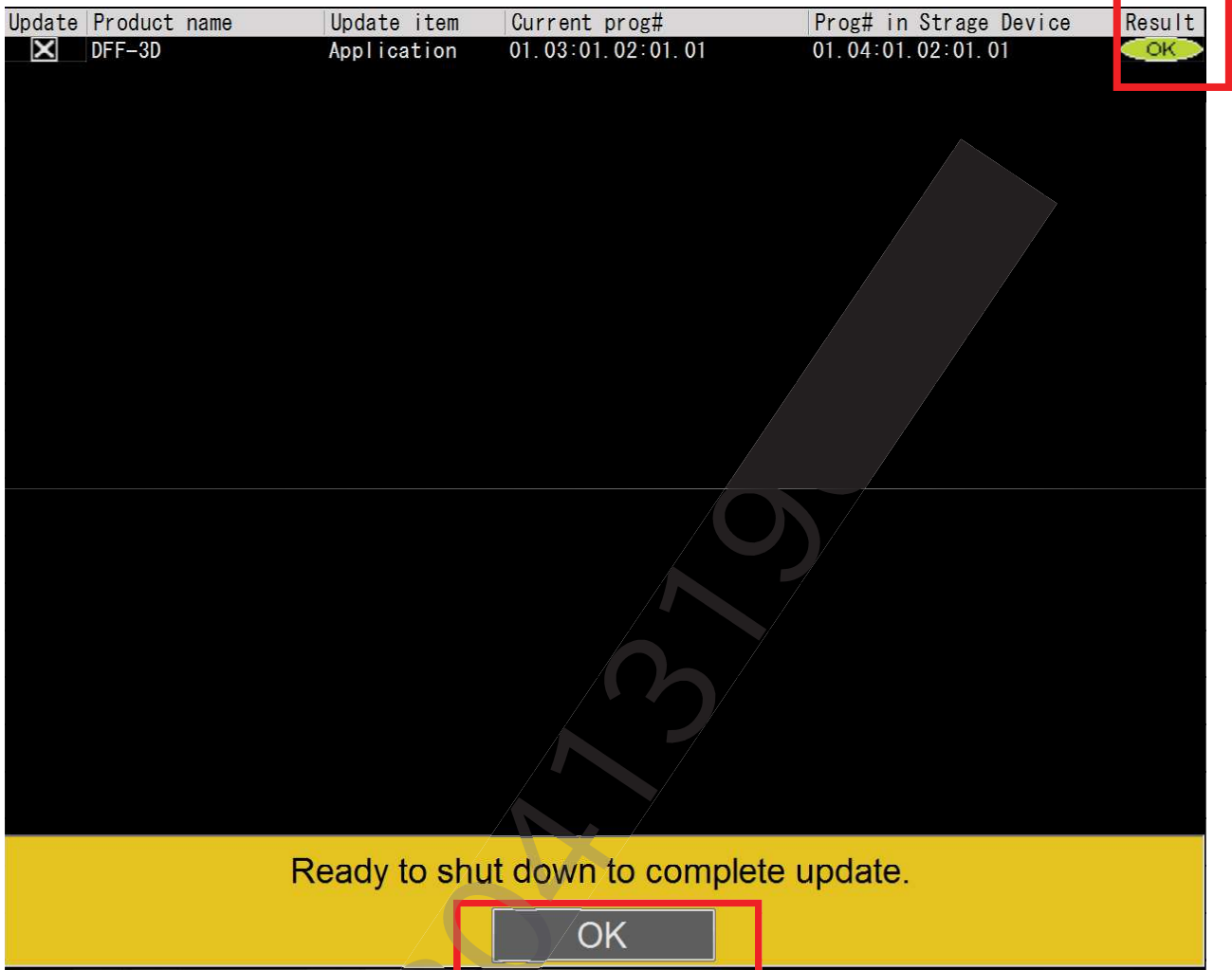


(5) The software update is started, and then the progress bar is displayed.



(6) After the software update is completed, check that [Result] shows [OK].

Remove the SD card, and then click [OK] at the bottom of the screen.



(7) After restarting the TZT, select [Menu]-[Initial Setup]-[Sensor List], and check that the software of the DFF-3D has been updated.