Software upgrades of the DL2 system:

All the supplied electronics contains software of some sort, and all of these can be upgraded from a PC. To do this connect your PC by LAN cable to the Unit in question, or connect all units to a switch and open the skipper service software available at

1.1 Service software: Download and install the service software.

http://www.skipper-

service.no/skipdoc/data////Software//SkipperServiceSoftware/SetupProjectServiceSoftware.msi

Connect your open this software and open the 'Com setup' tab. Press 'Find Skipper Ethernet Systems'

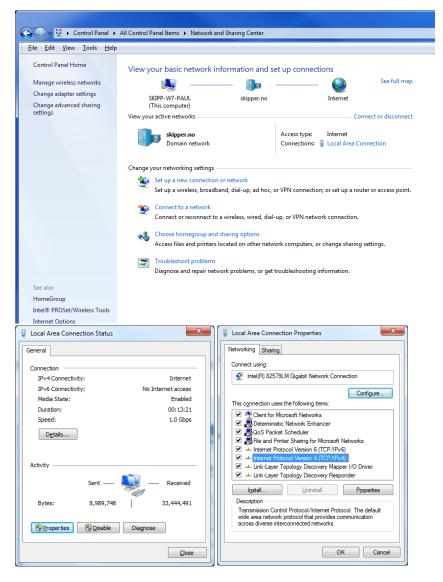


You should see the connected systems and the sensors connected to them. If you do not see this, but are connected. Check your antivirus settings, you may need to temporarily disable.

1.2 Ensure TCP/IP is functional

To upgrade a software or firmware you will need to ensure your system is in the same IP domain as the DL21. In the case above you can see that the systems are in 2 domains 10.31.1.98 and 172.16.1.103

Unless you are using a router, To allow the systems to talk using TCP/IP V4 prototcol one or the other will have to be changed. And the PC must be set to static. Go to 'network and sharing centre' in 'control panel'



Click on 'local area Connection' -> 'properties' -> select 'Internet Protocol Version 4 (TCP/IPv4' - >properties

Setup the IP address and subnet mask as follows (or use the addresses similar to those used by the boxes if not the below.

Interne	t Protocol Version 4 (TCP/IPv4) F	Properti	es			? X
Gene	ral					
this	can get IP settings assigned autom capability. Otherwise, you need to the appropriate IP settings.					
C) Obtain an IP address automatical	у				
-0	Use the following IP address:					
IJ	P address:	172 .	16.	1	. 106	
s	ubnet mask:	255 .	255 .	0	. 0	
₫	efault gateway:					
6) O <u>b</u> tain DNS server address autom	atically				
	Use the following DNS server addr	esses:				
P	referred DNS server:					
A	lternate DNS server:				•	
	Validate settings upon exit				Ad <u>v</u> a	nced
			Oł	<		Cancel

Click ok.

You are now ready to update.

1.3 DL2 software update

The DL2 unit has an extra LAN port, so connecting to this will give access to all parts of the DL2 system.

1. Update the CU-M001 graphic display

From the service software main menu go to the JB70D2 app, click on find CU-M001

SKIPPER [©]	
E11985 CD401-SEI JB270D1/CD JB270D1/CD JB270D2 Lyggsfor status Image: Sei	
Get 05 form Service Software upgrade available Open Devertical SMPFER INFO Instruct 602 2016 1.67% 1.67% 2012 2017 Instruct on Using the ET ways both row available on the Fourin 1.67% 50 10 2012 Instruct on Using the ET ways both row available on the Fourin 1.67% 60 10 2012 Instruct on Using the ET ways both row available on the Fourin 1.67% 70 10 2013 New Sonce adhere release. With terms for DL 1. Compact display and reproved EML224 Sensor 1.67% 70 10 2013 New Sonce adhere release. Writh terms for DL 1. Compact display and reproved EML224 Sensor 1.67% 70 10 2013 New Horne werease? Try to invariable and relead from the link. 1.67% 60 50 2013 How to taskile the new dual STM_SOG danded for vessels over SSk GRT from June 2014 1.67%	
PormJB70	
Download Firmware Search units connected to ethernet Find JB70 Units	Find CU-M001
Found Systems CU-M001	
Name Ser. No. IP	MAC Firmware
CU-M001 150053 [172 16 1 103] 50.CS	FA0:10:00:39 1.0.10.6 Download Firmware

Click on the 'Download Firmware' and search to the latest software. This can be found on the web at

http://www.skipper-service.no/skipdoc/skipdoc.php?showdir=data///Software//DL2%20-%20Software%20for%20screen%20and%20JB70%20Unit

This system part will accept software starting with SW_M005. The screen will reboot after upload and a further search should show the new version after about 1 minute.



2. Update the JB70D21-SA DL2 part / JB70D2-SA

From the service software main menu go to the JB70D2 app, click on 'Find JB70 Units'

<u>.</u>	FormJB70	·			-	_	70	
Do	wnload Firmware							
	Search units con	nected to ethemet	Find J	B70 Units	Find CU-N	/001		
 _	Found Systems			JB70				
		Name	Ser. No.	IP	MAC	Firmware		
	JB70D2	Test Main Unit	150041	10 31 1 98	50:C9:A0:20:00:26	1.0.11	Download Firmware	

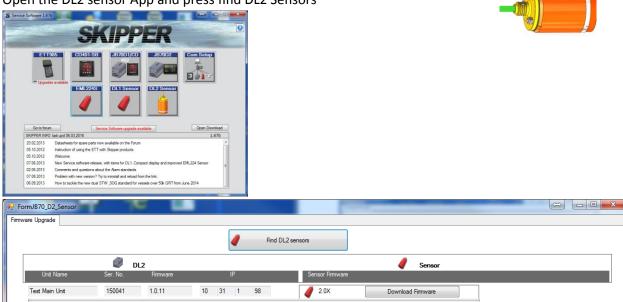
Click on the 'Download Firmware' and search to the latest software. This can be found on the web at

http://www.skipper-service.no/skipdoc/skipdoc.php?showdir=data///Software//DL2%20-%20Software%20for%20screen%20and%20JB70%20Unit

This system part will accept software starting with SW_M004. The screen will reboot after upload and a further search should show the new version after about 1 minute, remove and rapply power if the new version does not show correctly.

3. Update the DL21SG-SA DL2 part / DL2SG-SA sensor rev 1414A or later

Open the DL2 sensor App and press find DL2 Sensors



Older sensors may show 2.0X, this is because they are not programmed to respond. New softwares in new sensors will respond with the software version (2.13, 2.14 etc.). If in this older case, ensure the sensor is connected and that values are currently being received from the sensor.

On graphic display go to Diagnostics and see values coming on the table to the left (Blue area)

Speed S	imulation:	Off	Simulate fixed speed	STAR
	ert output: (Simulation source	SENSO
Sensor live			Fixed speed long	1.0 kn
STW2L -34.8	STWL QF 9.0	Values h	oro	
STW2T 45.0	STWT QF 9.0	values in	peed tra	1.0 kn
SOG2L -13.8	SOGL QF 9.0			
		ROT	Test Alert output	START
SOG2L -13.8 SOG2T -19.9 GPS SOG	SOGL QF 9.0 SOGT QF 9.0 TEMP 39.3	ROT	Test Alert output	START
	Self-test			

Press Download firmware and search to the latest version This is available on the web at http://www.skipper-service.no/skipdoc/skipdoc.php?showdir=data///Software//DL2%20-

%20Software%20for%20screen%20and%20JB70%20Unit

and will be labelled SW-M006.

This firmware upgrade will take 2 to 3 minutes. After this process is finished. Restart the system and check using the com setup

<mark>61162_450</mark>		6 al				E							X
Multi Configuration	IEC-61162-1/2	NMEA IEC-61162-	450 UDP										
Find Skipper Ethernet Systems													
	Sys. ID	Name	Ser. No.	SW ver.					MAC	Group	Paire	ed System ID	
Found Systems													
CU_M001	II 0103		150053	1.0.10.6	172	16	1	103	50:C9:A0:10:00:39	NAVD	▼ <⇒ VD	0104 Save	<u>link</u>
JB70D2	VD 0101	Test Main Unit	150041	1.0.11	10	31	1	98	50:C9:A0:20:00:26	NAVD	•	Save	<u>link</u>
	L DL2 s	ensor Ser. No. 1-1	6	Firmware	Ver. 2	DX							

You should now see the latest softwares in all units including the DL2 sensor.