

NavDP4000

Dynamic Positioning Control System – SERVICE LAPTOP USER MANUAL

Navis Engineering Oy

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General principles

NAVIS Service Laptop goal is to provide world-wide service support to the customers. Remote administration is possible in areas with 3G (or better) mobile broadband coverage.

NAVIS Service Laptop is designed to perform the following functions:

- Remote DP system calibration and tuning
- Remote SW update
- Remote troubleshooting by NAVIS Service Team
- Remote PLC software upload

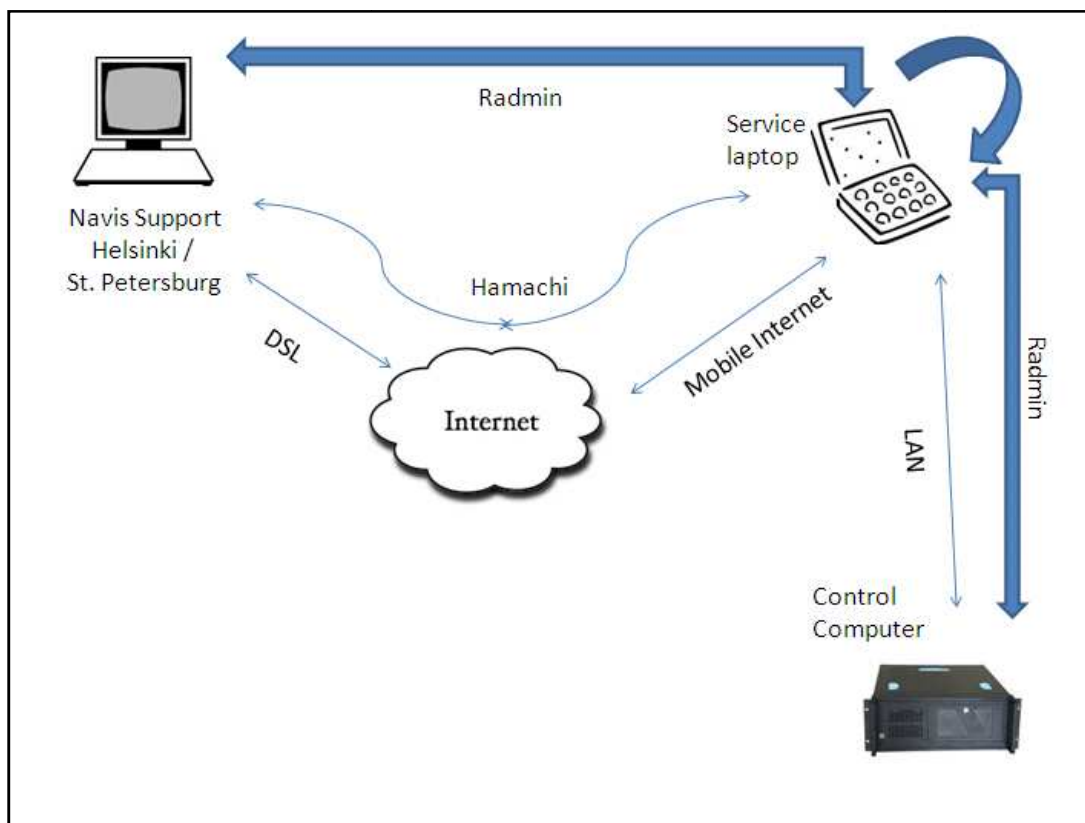


Fig. 1 General Arrangements

Onboard before connection to remote computer

Onboard network

- In case of DP0 or DP1 system there is no Ethernet network, all computers have empty LAN sockets. Use the cross LAN cable to connect to computers. Connect to any not used by the system LAN socket
- In case of DP2 system DP A and DP B computers are connected to hubs. Use the straight LAN cable to connect to a hub. IJ computer is the same as a DP0 computer.
- In case of DP1-non ABS system computers are connected to hub on the network 1 (192.168.1.*) and connected between each other by cross cable on the network 2 (192.168.2.*). Use the hub.
- If hubs are located remotely from the computers, it might be easier to disconnect a DP computer from hub for the service period and to connect the laptop to the empty LAN socket with the cross LAN cable.

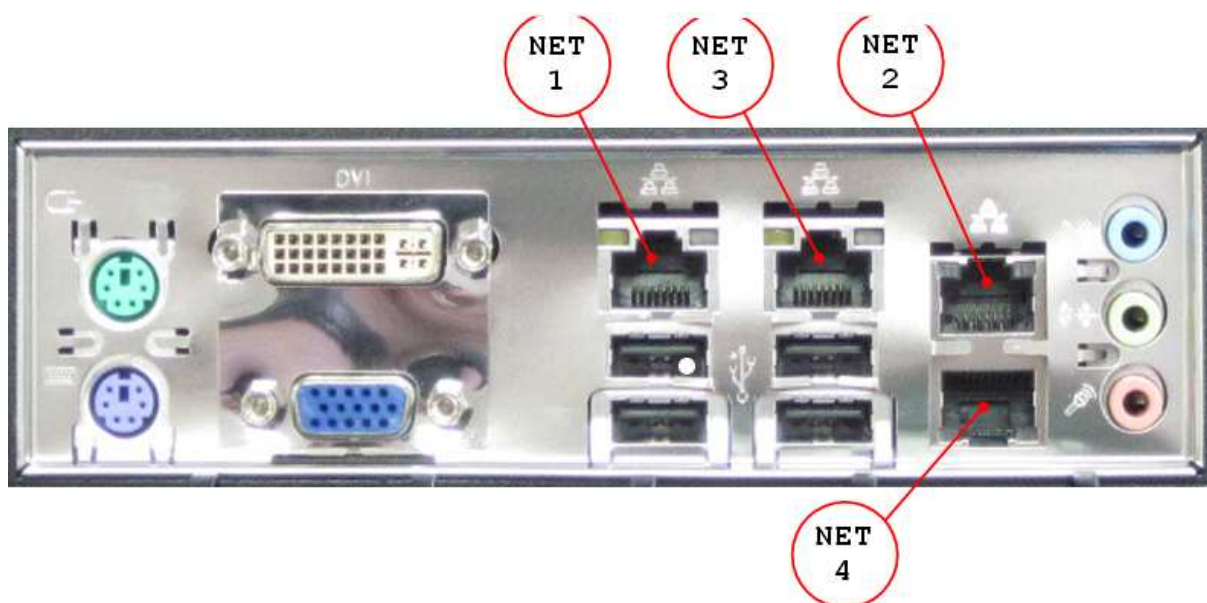


Fig.2 DP computer back plane and LAN sockets

Computer names and IP-addresses

- If you are connecting to the DP network 1, the IP-address on your laptop must be like 192.168.1.*
- If you are connecting to the DP network 2, the IP-address on your laptop must be like 192.168.2.*
- The last number in laptop IP should be between 100 and 130 to avoid IP interference certainly.
- Clear the *Preferred/Alternate DNS server* and *Default gateway* fields in the *Internet Protocol (TCP/IP) Properties* dialog on your laptop.
- DP Computer names and IP-addresses might be not standard. Connect the service keyboard to the DP computer and run the *cmd* command.

- Use *Hostname* command to determine computer name.
- Use *Ipconfig* command to determine computer IP-addresses.
- Connect your laptop to the on-board network. Ping the DP computer IP.
- If IP is not reachable, try another network.

Connection with remote Navis engineer: requirements

- Establish the Internet connection in any way. You may use wi-fi, USB or Express-card modem, Vessel LAN socket (in this case you need additional USB or Express-card LAN adapter).
- Internet connection speed must be at least 128 kbit/sec Onboard: connecting to remote computer

Inform the remote Navis engineer about:

1. Your Hamachi IP.
2. Your Remote Administrator port, user name and user password.
Radmin ver. 2 port number: 4898
Radmin ver. 3 port number: 3128
3. The IP of the DP computer you are able to ping from your laptop.

Laptop configuring

- In case your laptop is not accessible, Firewall and Antivirus monitors should be switched off.
- For switching the Firewall off, run the *Control* application, double-click the *Security Center* icon, click the *Windows Firewall* link and choose the *Off* option. Press the *OK* button.
- In case the Hamachi connection is not stable, press the Power button twice (Hamachi off / Hamachi on).
- Turn Firewall and Antivirus monitor on again after service work!

Talking with remote Navis engineer

- Skype or ICQ
- Hamachi chat. Select the colleague from the list, click with right mouse button on his name and choose the *Chat* menu item. Use <Enter> for message sending and Ctrl+Enter for new line starting.