



Product: MGC and MRU 5th Generation

Version: MRU sw revision 5.06.14

Date: 2025.10.14

Release note

This software is an upgrade of previous software with following changes:

New functionality

- *NMEA ZDA message.* If NMEA ZDA messages are input on several channels, the ZDA message input on COM1 will be prioritized.

Resolved issues

- *PPS synchronization.* This software support updated MGC HW with improved PPS synchronization.

Supported HW

- The miniMRU, MRU 5th generation and the MGC R-series are supported.

Disclaimer

This update should not be performed during, or prior to, critical operations. The system will be offline for the duration of the upgrade, thus no outputs will be available for external equipment. After the update has been completed the system should be allowed in monitoring mode, and not utilised for operations, for at least four hours to ensure proper operation. The system should be monitored closely after the update. If any doubt about the performance of the system, please do not hesitate to contact the service department at Kongsberg Discovery, Seatex. The update must be done in accordance with Kongsberg Discovery, Seatex' procedures (Installation manual, release notes etc.) and is done at the customer's own risk.

Software upgrade

The upgrade to sw version 5.06.14 is performed in the following way dependent of an MRU/miniMRU to upgrade or an MGC with JB7. Proceed with the correct alternative:

Upgrade of MRU/miniMRU:

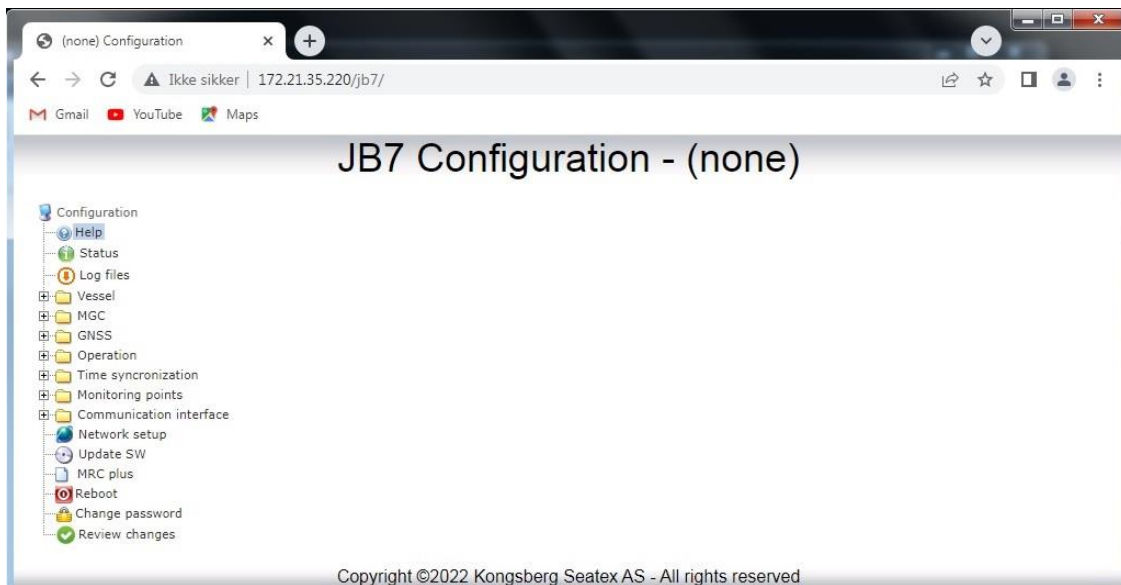
Use MRC+ version 5.08.02 or later to upgrade the 5th generation MRU and miniMRU to MRU sw version 5.06.14. Proceed as follows:

- 1) Copy the new MRU software file **MruV5614.bex** from the Memory stick or Email file to the MRU or MRC directory on your PC with the MRC+ software installed.
- 2) Connect the sensor unit to the PC by use of the MRU-T-015 cable and the MRU-E-CE1 peer-to-peer Ethernet cable. Use the power supply MRU-E-P24 to supply the sensor unit with 24 V DC. Insert the power connector on the power inlet on the MRU-T-015 box. Alternatively, connect the sensor unit to the junction box MRU-E-JB3 and an Ethernet cable between the PC and the junction box.
- 3) When the sensor unit LED is flashing green, start up the MRC+ software by double-clicking on the MRC+ icon.
- 4) Click on the **Sensor** menu and select **Connect**. Enter the IP-address and port number and press **Connect** button. The selection "Factory IP address" includes the default MRU IP address (192.168.1.20). Note: If problems connecting the sensor unit to the MRC+ see **MRC+ Help** under the **Help** menu in MRC+ or the Installation Manual.
- 5) The MRC+ receives configuration from the sensor unit and a **Configuration** tab appears on the screen. You are now connected and can upgrade the MRU software.
- 6) Click on the **Sensor** menu and select **Upgrade software**. Enter the location of the **MruV5614.bex** file and press **Open**. Press **Yes** to the question "Are you sure you want to upgrade software on the sensor unit?". The upgrade starts and takes also some seconds.
- 7) In the MRC+ top bar **5.06.14** is shown in the **MRU sw version** field. If so, the installation is completed.

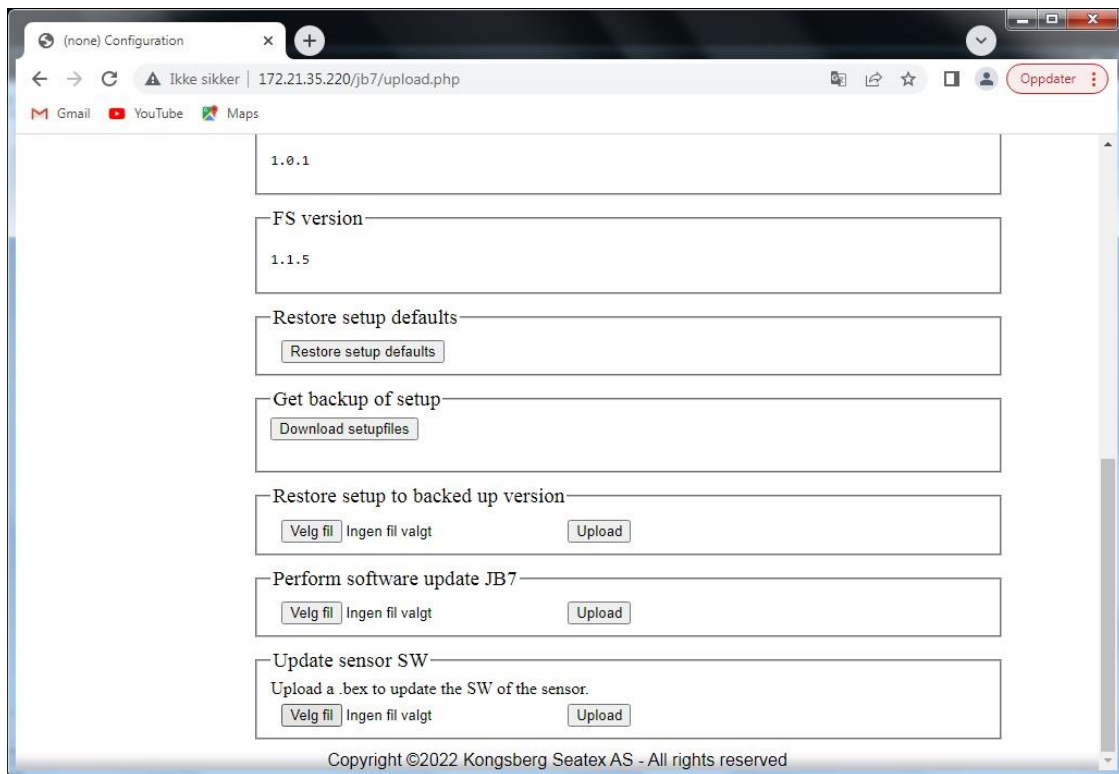
Upgrade of MRU sw to MGC sensor unit through MGC JB7 connection box:

To install the new MRU software version on an MGC with JB7 connection box, proceed as follows:

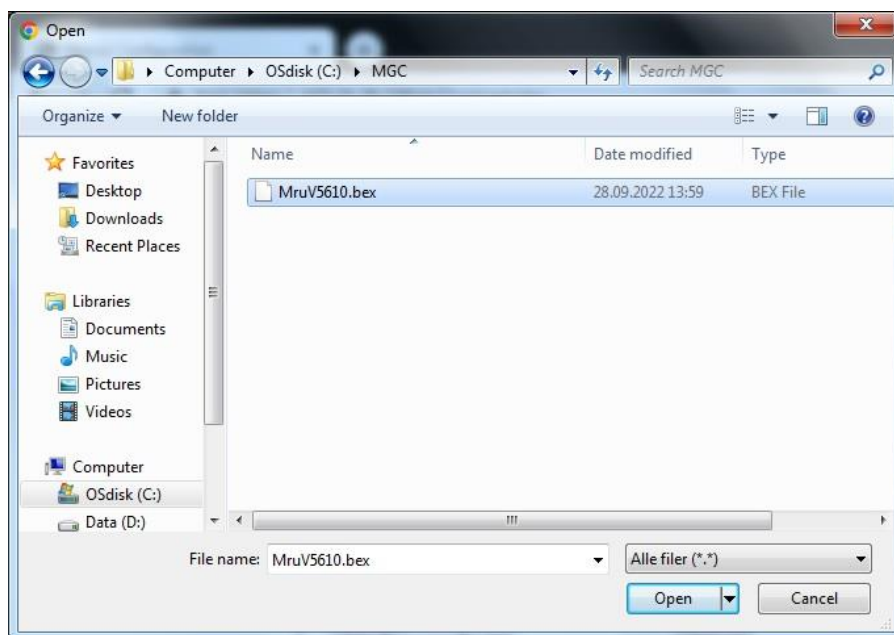
1. Connect a PC to LAN1 on the MGC JB7 by using an Ethernet cable. The MGC JB7 has factor set IP address 172.21.35.220 (can have been changed by the customer and the that address have to be used). The PC has to be set up with the address in the range 172.21.35.xxx, except for the same address as the MGC JB7. For instance, the address on the PC could be set to 172.21.35.100. The network mask is 255.255.255.0. To configure the PC to use local area connection, enter **Settings** and **NetworkConnections** on the PC.
2. Enter the IP address 172.21.35.220 in a browser on the PC. Enter username “jb7” and password “1234” (default). The configuration program will then appear in the browser as shown below.



3. Enter the **Update SW** configuration folder and scroll down to the **Update sensor SW** windows as shown below:



4. Click on **Velg fil** (select file) button and browse to the location of the new sensor SW (*.bex files). The MGC sensor unit SW must be version 5.6.10 or later.

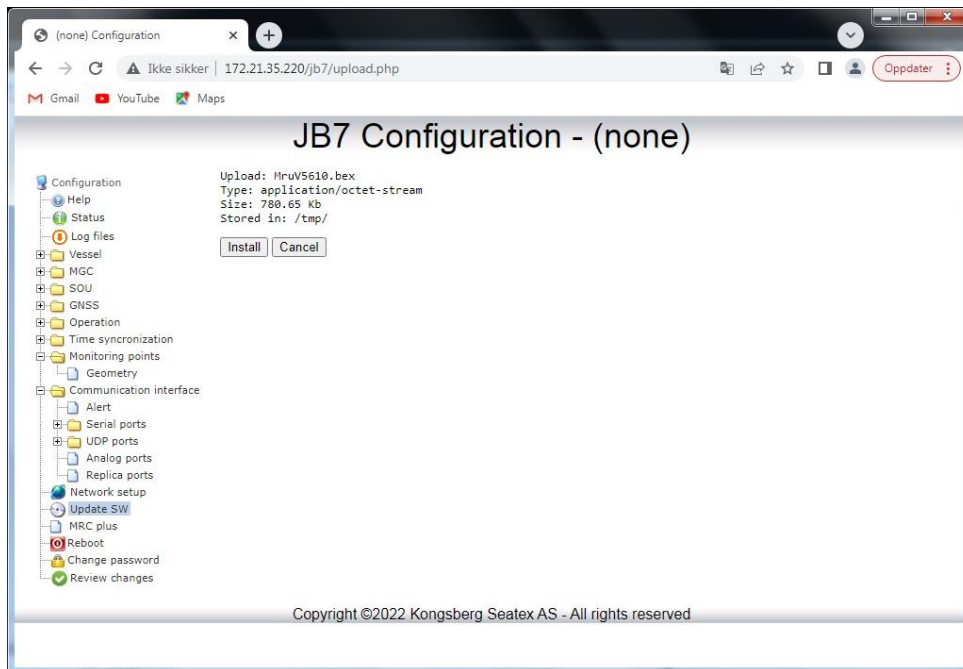


5. Click on **Upload** button to upload the new SW to your PC.

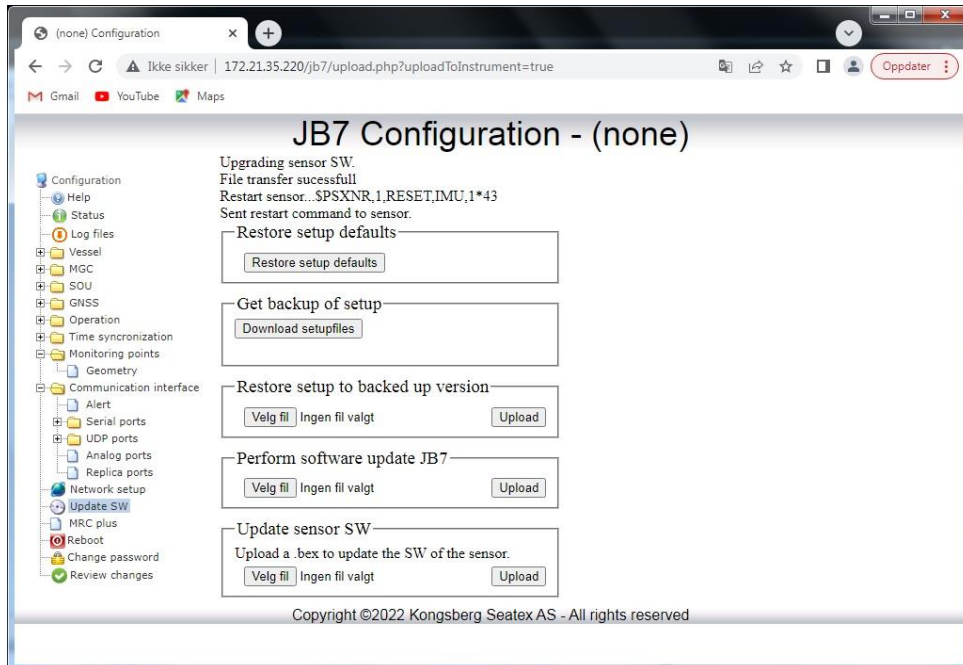


For further questions or information, please contact Kongsberg Discovery Customer Support, direct on telephone +47 33 03 24 07 or by e-mail support.seatex@kd.kongsberg.com.

6. Click on **Install** button to install the new SW to the sensor unit.



7. The MGC will restart automatically after installation of new SW and the following message will appear in the web browser:



8. The installation of new MRU software to the MGC sensor unit is now completed.

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