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SAILOR 7222 VHF DSC Class A Step-By-Step software update guide software version 1.13

Subject:

Step by step guide on how to update SAILOR VHF7222 to software version 1.13.

Follow the instructions given the current version installed on the Control Unit (**CU**) and Transceiver Unit (**TU**). For common issues, see the troubleshooting guide at the end of this document.

Important note:

Version 1.13 introduces a new menu item called "Devices", this is where TU is selected, when pairing/unpairing a CU with a TU.

Version 1.11 – 1.12 to 1.13

Update Process:

1. Launch TMA tool on a connected service pc, and let it find the CU & TU.
 - **NOTE:** Please use the latest released TMA Tool, version 1.09. Can be downloaded from the Cobham Partner Portal.
2. Download the latest VHF 7222 software files to a USB stick and connect it to the service PC.
3. Start the software update of the VHF 7224 Control Unit and **only the CU**. From 1.11 and onwards the paired TU will be updated as part of the Control Unit Update.
 - **NOTE:** For specific use cases it is still possible to update the TU individually, e.g. an unpaired TU, but it must **not** be done while the CU update is in progress.
4. Wait until the CU and TU has finished updating.
5. Power cycle the CU.

Version 1.10 to 1.13

Update Process:

1. Launch TMA tool on a connected service pc, and let it find the CU & TU.
 - **NOTE:** Please use the latest released TMA Tool, version 1.09. Can be downloaded from the Cobham Partner portal.
2. Download the latest VHF 7222 software files to a USB stick and connect it to the service PC.
3. Start the software update of the TU and let it finish the update.
4. After finishing the TU update, start CU update.
5. Wait for the CU update to finish.
6. Power cycle the CU using the power button.
7. The system will be back in working condition with SW version 1.13 on both units.

Version 1.09 and earlier to 1.13

Update Process:

1. Remove both CU & TU from Moxa network, if such is present.
2. Do a direct LAN connection between the CU & TU.
3. Launch TMA tool on a connected service pc, and let it find the CU & TU.
 - **NOTE:** Please use the latest released TMA Tool, version 1.09. It can be downloaded from the Cobham Partner Portal.
4. Download the latest VHF 7222 software files to a USB stick and connect it to the service PC.
5. Start the software update of the TU and let it finish the update.
6. After finishing the TU update, start CU update.
7. When updating the CU and TU to 1.13 from 1.09 and earlier versions, TMA will not show progress further than 98% for the CU. The update is done when a new CU icon appears in the TMA tool, matching the serial number on the CU sticker.
 - **NOTE:** A timeout error is expected 120 seconds after the update has reached 98% and the old CU icon will afterwards appear offline.
8. Remove the LAN connection between CU & TU and do direct connection between service PC and TU.
9. Using the "Management menu" in TMA Tool, open the TU web interface. Once logged in, do a factory reset of the TU.

NOTES:

 - The Web interface supports browsers: "Firefox" and "Chrome".
 - Removing the LAN connection to the CU is detected after 40 sec. Only then is it possible to **FACTORY RESET** the TU.
10. Reconnect the CU and TU LAN connection.
11. From the CU menu, select **SETTINGS – SYSTEM – FACTORY RESET** and perform a factory reset on CU.
12. **Power cycle the system by help of the power button on the CU.**
13. The two units, CU & TU, will now do a re-pairing and the system will be back in working condition with SW version 1.13 on both units.

IT IS VERY IMPORTANT THAT BOTH UNITS HAVE BEEN FACTORY RESET AND POWER CYCLED AFTERWARDS. OTHERWISE, THE RE-PAIRING WILL NOT TAKE PLACE AND YOU WILL SEE "TU CONNECTION LOST".

Trouble Shooting

In case the TU is lost or not detected by the TMA tool after SW update:

This issue has been resolved in newer versions of TMA.

1. Update the TMA installation to 1.09 before attempting these steps.
2. Connect the PC directly to the TU only.
3. Launch the TMA tool, wait for TMA to write: "No compliant devices found yet".
4. Close the TMA and run the IP tracking program "**Wireshark**" on PC - check if it finds the IP Address of the TU, e.g. 169.254.xxx.yyy. Try pinging the IP address to confirm reachable.
5. Launch web browser (example "Mozilla Firefox" or "Chrome") and insert the Ip address <http://169.254.xxx.yyy> to access the Web Interface and carry out the **Factory Reset on TU**.
6. Connect the LAN cable between CU to TU, check that the TMA is now able to detect both CU to TU.
7. Power Cycle the system using the **stand-by/power button** on 7224CU.
8. Check CU-TU connection is OK.
9. End

The "TU Connection Lost" after update/factory reset

From version 1.13 onwards pairing is handled through the CU settings menu. If either of the units have been paired before see: "**Updating an existing installation after replacing a CU/TU, (version 1.13).**"

In the case of two new devices, follow the below steps.

1. Connect the devices as per the installation guide.
2. On the CU, open the "settings" menu, select "devices", then "transceiver unit". From the list select the TU the control unit will be paired with. (the model and serial number identifies the TU)
3. The units are now paired.
4. Power cycle the CU.

Updating an existing installation with a new version 1.13 CU/TU

When replacing either a CU or TU in an existing installation, the remaining unit will expect to connect to the replaced unit. As of version 1.13 this situation should be handled as described below:

Replacing a Control Unit

1. Connect the devices as per the installation guide.
2. Update the TU to software version 1.13 if it is not already updated.
3. Using the "Management menu" in TMA Tool, open the TU web interface. Once logged in, do a factory reset of the TU.
4. On the CU, open the "settings" menu, select "devices", then "transceiver unit". From the list select the TU the control unit will be paired with (the model and serial number identifies the TU.)
5. The units are now paired.
6. Power cycle the CU.

Replacing a Transceiver Unit

1. Connect the devices as per the installation guide.
2. Update the CU to version 1.13.
3. On the CU, open the "settings" menu, select "devices", then "transceiver unit".
4. Press "UNPAIR" to remove pairing with the old TU.
5. Enter the "transceiver unit" menu again, and select the new TU, (the model and serial number identifies the TU)
6. The units are now paired.
7. Power cycle the CU.