

**407590C/D, 407560A/D**  
**SAILOR 1000 XTR GX-R2, SAILOR 600 XTR GX-R2**

Software Release Note – SAILOR XTR Software 3.12B009

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## 1. New features, bug fixes, and known limitations.

### Priority:

- **High:** It is highly recommended to apply this change / initiative to all systems.

### Changes from SAILOR XTR SW ver. 3.10B007 to SW version 3.12B009

#### New features and improvements:

- Consolidated release for all SAILOR XTR products
  - Replaces all previous versions of SAILOR XTR SW, namely 3.10 (last unified XTR release)
- Feature Keys added.
- Major Web GUI update (See appendix)
  - New dashboard with compass rose and active events.
  - New compass rose in the menu on all pages in Web UI
- Cyber security improvements (See appendix)
  - Mandatory HTTPS redirect
  - Added system use description.
  - Configurable security level (with minimums) of admin/guest passwords

#### Related bug fixes:

- General bug fixes and stability improvements

#### Known limitations:

- Web interface and settings
  - When connecting to the Web interface using HTTPS, the browser might reject the connection due to non-supported certificate (see appendix). Depending on the browser, the operator may need to click “Advanced” and “Proceed” or similar.
- Azimuth Calibration.
  - Calibration on a RHC (Right-hand circular polarization) can incorrectly complete successful with incorrect specified values.  
Workaround: Use ‘User controlled’

## 2. Software release history

### Changes from SAILOR XTR SW ver. 3.08B011 to SW version 3.10B007

#### New features and improvements:

- Consolidated release for all XTR products
  - Replaces all previous versions of XTR SW, namely 3.08 (last unified XTR release)
- Add calibration status on wizard azimuth calibration page.
- Display a pop-up warning when enabling manual GPS position.
- Improvement of the Network page.
  - Dropdown boxes now show where the LAN ports is located. (ADU port 1 / BDU port 1)
- Disable possibility to change the heading & position source during calibration.

#### Related bug fixes:

- Installation wizard can't activate VSAT profile. Fixed.
- General bug fixes and stability improvements

### Changes from SAILOR XTR SW ver. 3.07B010 to SW version 3.08B011

#### New Features and improvements:

- Consolidated release for all XTR GX-R2 products.
  - Replaces 3.05 (CX751), and 3.07 (SMB3315)

#### Related bug fixes:

- Multiple bug fixes related to dual antenna systems.
- General bug fixes and stability improvements.

### Changes from SAILOR XTR SW ver. 3.05B010 to SW version 3.07B010

#### New Features and improvements:

- Support for the GMU 407523A (new SMB3315 core module)
- Support for ADS (Antenna Diversity Solution)

#### Related bug fixes:

- General stability improvement

### Changes from SAILOR XTR SW ver. 3.05B007 to SW version 3.05B010

#### New Features and improvements:

- Dual Modem / GPIO support. Appendix I
- General stability improvement

#### Related bug fixes:

- GX-R2: GMU goes offline when switching between ADU's.
- Edit/save/close profile buttons in the edit profile mode display incorrect.
- Azimuth calibration:
  - AGC control issues fixed. (Azimuth calibration took long time to finish)
- ADS
  - Keyline count Master / Slave. (Missing keyline / RS422 cable is not detected)

#### Known limitations:

- Web interface and settings

- If the Operator tries to make a secure connection to the Web interface using HTTPS the Browser (Firefox, Edge) might reject the connection due to non-supported certificate. The Operator should use HTTP or the Chrome browser.
- Azimuth Calibration.
  - Calibration on a right-hand circular polarisation can incorrectly complete successful with incorrect specified values. (GX-R2)
  - Automatic azimuth calibration fails.
    - 1) Workaround: Use 'User defined'
- ADS
  - If Slave configuration is changed to a non-ADS setup, no event is shown on the Master.

### **Changes from SAILOR XTR SW ver. 3.04B009 to SW version 3.05B007**

#### **New Features and improvements:**

- General stability improvement

#### **Related bug fixes:**

- 

#### **Known limitations:**

- Web interface and settings
  - If the Operator tries to make a secure connection to the Web interface using HTTPS the Browser (Firefox, Edge) might reject the connection due to non-supported certificate. The Operator should use HTTP or the Chrome browser.
- Azimuth Calibration.
  - Calibration on a right-hand circular polarisation can incorrectly complete successful with incorrect specified values. (GX-R2)
  - Automatic azimuth calibration fails.
    - 1) Workaround: Use 'User defined'
- ADS
  - If Slave configuration is changed to a non-ADS setup, no event is shown on the Master.
  - Short data interruption in user data during antenna switch

### **Changes from SAILOR XTR SW ver. First official release 304B009**

#### **High lights:**

- First official release

### 3. Software upload procedure

1. Software upload procedure Extract the “SAILOR XTR GX-R2 software 310B007.zip” file  
Open an Internet browser on the PC and enter the web address to the SAILOR XTR at <https://192.168.0.1>.
2. To login as ADMIN  
Enter **ADMINISTRATOR LOGIN:**  
**Username:** (admin (case sensitive))  
**Password:** (your admin password)  
Or  
Press the BDU left keypad for 5 sec. to enable the ‘**local administration function**’.  
Logs in as admin without the use of a password. *BDU will automatically log out after 1 hour*  
Note: Accessing the BDU with ‘local administration function’ does not change the current admin account password.
3. Locate ‘Upload’ section under Service-Software menu. Click ‘Choose file’ to browse, select the new software file (tt7091\_3.10-0007-acu\_release.sig.enc.tif) and click ‘Upload’.
4. The SAILOR XTR system will upload the new software and reboot.
5. After the system becomes available again verify that the software page shows the new software version as active for the currently loaded software.

This concludes the SW upload procedure.

## 4. Appendix.

New dashboard with compass rose and active events:

The dashboard displays the following sections:

- Antenna:**

VSAT profile	MDM2510
Satellite position	34.5° W
RX polarization	Horizontal
TX polarization	Vertical
RX RF frequency	11.160000 GHz
LNB LO frequency	9.750000 GHz
TX RF frequency	14.160000 GHz
BUC LO frequency	12.800000 GHz
Tracking RF frequency	11.160000 GHz
Current Orbit	GEO
- Compass:** A circular compass rose showing a heading of 360° / 0°. The rose is divided into 45-degree increments (315°, 45°, 90°, 135°, 180°, 225°, 270°). A blue arrow points towards the 360° mark.
- Modem:**

Model	Generic OpenAMP
RX locked status	Locked
Signal level	0.0 mV
Reference	TX 10 MHz
RX IF frequency	1.410000 GHz
TX IF frequency	1.360000 GHz
TX allowed by modem	Yes
BUC input power	
- Pointing:**

GNSS position	55.79° N, 12.52° E
Vessel heading (input/correction)	0.0°/0.0°
Azimuth (geographic)	232.4°
Elevation (geographic)	14.0°
Azimuth (relative)	232.3°
Elevation (relative)	14.0°
Polarization skew	26.7°
GNSS Satellites	9
- Active events:** No active events.
- System info:**

BDU part name	407516A
BDU serial number	22334455
Antenna part name	7509I
Antenna serial number	84356241
Software version	3.12 build 9

New compass rose in the menu on all other pages:

The software settings page includes the following sections:

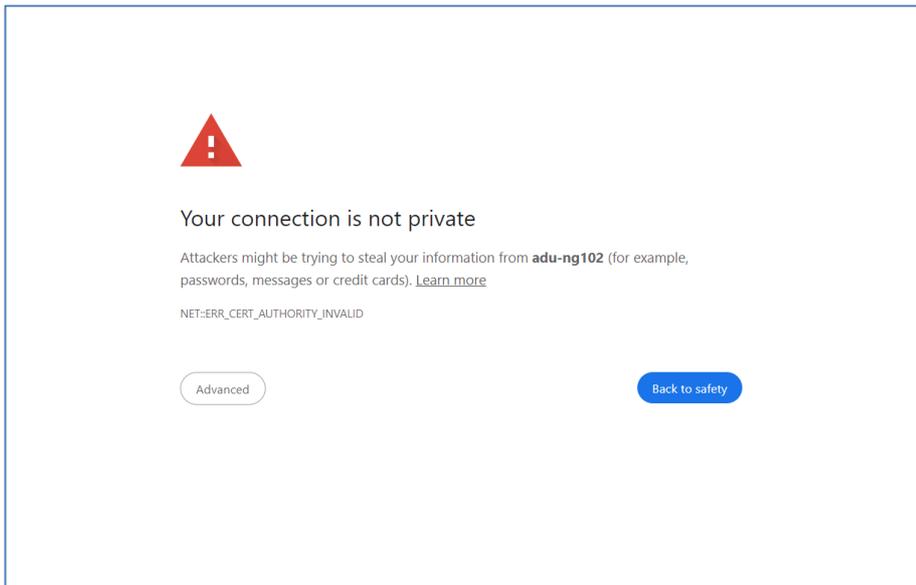
- Navigation:** Software, Calibration, Modem, Line up, Events, Feature keys, Support.
- Compass:** A small compass rose is located in the left sidebar, showing a heading of 360° / 0°.
- Upload:**
  - Choose file: No file chosen
  - Upload
  - Enable automatic rollback on failure:
- Software versions:**
  - Current software version: 3.12 build 9
  - Alternative software version: 47.11 build 7723 (Switch to this version)
- Configuration:**
  - Export: Export current configuration to file
- Import from file:**
  - Choose file: No file chosen
  - Upload
- Factory default:**
  - Reset: Reverts configuration and software to factory default
- BDU config:**
  - Load config from BDU: Test (Load)
- Disclaimer for downloading and uploading software:**

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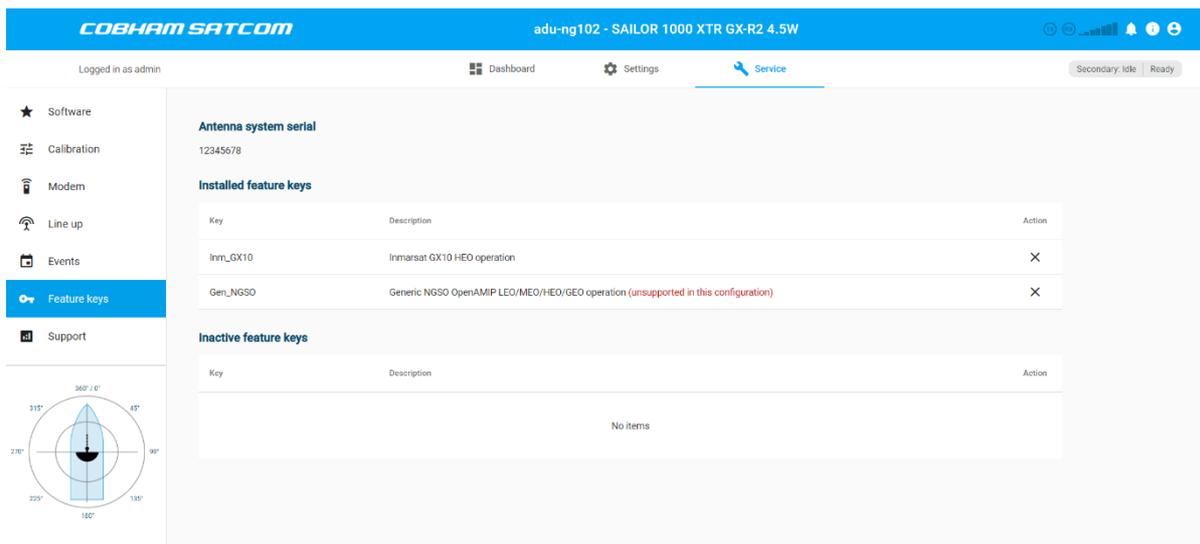
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Mandatory redirect from http to https (a small part of the cyber security upgrade, RED and/or E26/E27):

The user needs to click Advanced and select to proceed. Details is browser specific.



Feature Keys page have been added:



Added system use description (a small part of the cyber security upgrade, RED and/or E26/E27):

The screenshot shows the 'Service' page of the SAILOR XTR software. The page is titled 'adu-ng102 - SAILOR 1000 XTR GX-R2 4.5W'. The left sidebar contains navigation options: Software, Calibration, Modem, Line up, Events, Feature keys, and Support. The main content area is divided into several sections: 'Installation manual' with a 'Download as PDF' button; 'Upload installation manual' with a 'Choose file' button and 'Upload' button; 'Download reports' with 'Download' buttons for 'Diagnostics report', 'User Log', and 'Statistics report'; and 'Extra diagnostic logging' with checkboxes for 'Modem communication' and 'BUC communication'. On the right side, there are sections for 'Self test' with a 'Restart antenna' button, 'Extended antenna POST' with an 'Enable' checkbox, and 'System use description' with a text area containing 'This is a test system use description' and an 'Apply' button. A status bar at the top right shows 'Secondary: Idle Ready'.

This is shown on the login screen:

The screenshot shows a login screen with a central form. The form contains two input fields: 'Username\*' and 'Password\*'. Below the input fields is a blue 'Login' button. At the bottom of the form, there is a link that reads 'New installation or forgot admin password?'. A blue oval is drawn around the bottom of the form area.

Configurable security level (with minimums) of admin/guest passwords (a small part of the cyber security upgrade, RED and/or E26/E27):

The screenshot displays the COBHAM SATCOM web interface. At the top, the logo 'COBHAM SATCOM' is on the left, and 'adu-ng102 - SAILOR 1000 XT' is on the right. Below the logo, it says 'Logged in as admin'. There are navigation tabs for 'Dashboard' and 'Settings'. A left sidebar contains menu items: 'VSAT profiles', 'Network', 'Navigation', 'Blocking zones', 'IoT & Management', 'Dual antenna', 'User administration' (highlighted), and 'Installation wizard'. Below the sidebar is a circular diagram with a blue arrow pointing upwards, labeled with angles: 360°/0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315°. The main content area is titled 'User settings' and shows two user profiles: 'guest' and 'admin'. Below this is a 'Password settings' section with a table of requirements:

Setting	Value
Minimum length	8
Minimum number of lowercase characters	1
Minimum number of uppercase characters	1
Minimum number of digits	1
Minimum number of special characters	1

An 'Apply' button is located at the bottom of the password settings table.