



## Table of contents

- 1 R5 SUPREME CDU SW release history ..... 3**
- 1.1 SW 1.2.1 (2017-06-28) .....3
  - 1.1.1 Compatibility .....3
  - 1.1.2 List of changes.....3
- 1.2 SW 1.1.16 (2016-03-08) .....4
  - 1.2.1 Compatibility .....4
  - 1.2.2 List of changes.....4
- 1.3 SW 1.1.15 (2015-11-13) .....4
  - 1.3.1 Compatibility .....4
  - 1.3.2 List of changes.....4
- 1.4 SW 1.1.14 (2015-09-21) .....4
  - 1.4.1 Compatibility .....4
  - 1.4.2 List of changes.....5
- 1.5 SW 1.1.10 (2014-07-01) .....5
  - 1.5.1 Compatibility .....5
  - 1.5.2 List of changes.....5
- 1.6 SW 1.1.9 (2014-03-12) .....5
  - 1.6.1 Compatibility .....5
  - 1.6.2 List of changes.....5
- 1.7 SW 1.1.8 (2013-09-10) .....6
  - 1.7.1 Compatibility .....6
  - 1.7.2 List of changes.....6
- 1.8 SW 1.1.6 (2013-06-14) .....7
  - 1.8.1 Compatibility .....7
  - 1.8.2 List of changes.....7
- 1.9 SW 1.0.12 (2013-02-20) .....8
  - 1.9.1 Compatibility .....8
  - 1.9.2 List of changes.....8
- 1.10 SW 1.0.1 (Initial release).....8
  - 1.10.1 Compatibility .....8
- 2 R5 SUPREME AIS TRANSPONDER SW release history..... 10**
- 2.1 SW 1.2.1 (2017-06-28) .....10
  - 2.1.1 Compatibility .....10
  - 2.1.2 List of changes.....10

### R5 SUPREME CDU SW RELEASE HISTORY



<b>2.2</b>	<b>SW 1.1.18 (2016-11-02)</b>	<b>10</b>
2.2.1	Compatibility	10
2.2.2	List of changes	10
<b>2.3</b>	<b>SW 1.1.16 (2016-03-09)</b>	<b>10</b>
2.3.1	Compatibility	10
2.3.2	List of changes	10
<b>2.4</b>	<b>SW 1.1.15 (2015-11-13)</b>	<b>10</b>
2.4.1	Compatibility	10
2.4.2	List of changes	10
<b>2.5</b>	<b>SW 1.1.14 (2015-09-22)</b>	<b>10</b>
2.5.1	Compatibility	10
2.5.2	List of changes	11
<b>2.6</b>	<b>SW 1.1.13 (2015-06-23)</b>	<b>11</b>
2.6.1	Compatibility	11
2.6.2	List of changes	11
<b>2.7</b>	<b>SW 1.1.10 (2014-07-01)</b>	<b>11</b>
2.7.1	Compatibility	11
2.7.2	List of changes	11
<b>2.8</b>	<b>SW 1.1.9 (2014-03-12)</b>	<b>11</b>
2.8.1	Compatibility	11
2.8.2	List of changes	11
<b>2.9</b>	<b>SW 1.1.8 (2013-09-10)</b>	<b>12</b>
2.9.1	Compatibility	12
2.9.2	List of changes	12
<b>2.10</b>	<b>SW 1.1.6 (2013-06-14)</b>	<b>12</b>
2.10.1	Compatibility	12
2.10.2	List of changes	12
<b>2.11</b>	<b>SW 1.0.12 (2013-02-20)</b>	<b>12</b>
2.11.1	Compatibility	12
2.11.2	List of changes	13
<b>2.12</b>	<b>SW 1.0.11 (2012-12-10)</b>	<b>13</b>
2.12.1	Compatibility	13
2.12.2	List of changes	13
<b>2.13</b>	<b>SW 1.0.7 (Initial release)</b>	<b>13</b>
2.13.1	Compatibility	13



## 1 R5 SUPREME CDU SW RELEASE HISTORY

### 1.1 SW 1.2.1 (2017-06-28)

#### 1.1.1 Compatibility

Tested to be compatible with R5 CDU 7000 118-530,J and earlier.

#### 1.1.2 List of changes

- R5 Navigation Sensor Support
- Updated UI
  - New icons and style
- Long Range Screen
  - Fixed issue with message list sometimes not updated correctly
- Fixed issue with STW and Set/Drift values shown when input data is lost
- Redundant/Slave System
  - Fixed synchronization issues
- Support for GSA Sentence
  - Added possibility to output GSA sentence on User Port 3, 4 and LWE.
- Trip Log
  - Fixed issue with trip log accumulating incorrect distances causing trip log to show wrong total distance travelled.
  - Increased precision in trip log (two decimals).
  - Possibility to reset system total counter.
- External Corrections
  - Fixed R4 NAV sensor configuration issue when using external corrections.
- MOB Screen
  - Increased precision of range value (two decimals)
- Added missing MID code for Panama (374)
- Sun/moon info
  - Added sun and moon rise/set information
- Tidal Port
  - Fixed issue with inaccurate tide predictions in some cases
  - Added tide port information in Navigation Info screen
  - Added automatic selection of closest tide port
- Fixed issue with closest beacon list not refreshed properly
- Added possibility to set continuous beep for scheduled alerts
- Merged AIS and NAV plot screen

### R5 SUPREME CDU SW RELEASE HISTORY



- AIS and NAV information displayed in same plot screen
- Renamed 'range' to 'distance' in some screens
- Alarm configuration split in separate screens for AIS and NAV
- Port Rate configuration split in separate screens for AIS and NAV

### 1.2 SW 1.1.16 (2016-03-08)

#### 1.2.1 Compatibility

Tested to be compatible with R5 CDU 7000 118-530,J and earlier.

#### 1.2.2 List of changes

- Navigation function updates
  - Tidal stations can now be exported and imported using USB storage media
  - Redundant Nav stability improvement
- AIS function updates
  - Incorrect handling of ETA data at leap day fixed
  - Removed parameter for disabling DGNSS correction input to AIS internal GPS (function is now fully automatic in transponder)
- General function updates
  - Added LCD backlight Day/Night settings

### 1.3 SW 1.1.15 (2015-11-13)

#### 1.3.1 Compatibility

Tested to be compatible with R5 CDU 7000 118-530,H and earlier.

#### 1.3.2 List of changes

- Navigation system updated
  - Logging of waypoint passing and position data to SD card
  - Display of waypoint passing logs
  - Tide plot view automatically updated
  - Prevent serial output of disabled alarms
- AIS update
  - Added parameter for disabling DGNSS correction input to AIS internal GPS

### 1.4 SW 1.1.14 (2015-09-21)

#### 1.4.1 Compatibility

Tested to be compatible with R5 CDU 7000 118-530,H and earlier.

#### R5 SUPREME CDU SW RELEASE HISTORY



### 1.4.2 List of changes

- IEC 62288 Ed.2 Compliance
  - New Symbols
    - SAR, ATON and Virtual ATON
- 1W Mode control from External Switch option selectable
- New NavStatus settings:
  - 11 = powerdriven vessel towing astern (regional use)
  - 12 = power-driven vessel pushing ahead or towing alongside (regional use)

### 1.5 SW 1.1.10 (2014-07-01)

#### 1.5.1 Compatibility

Tested to be compatible with R5 SUPREME CDU 7000 118-530,G and earlier.

#### AIS

The software is designed for use with R5 SUPREME AIS Transponder with SW 1.1.10.

#### NAV

The software is designed for use with the R4 (D)GNSS Sensors or the R4 (D)GPS Navigation Sensors with SW 6.8-S7/6.8-S8 and routing SW 1.07/1.08.

#### 1.5.2 List of changes

##### NAV

New features:

- Support for R4 (D)GNSS Sensors

Bug fixes:

- Beacon station ID sometimes not shown

### 1.6 SW 1.1.9 (2014-03-12)

#### 1.6.1 Compatibility

Tested to be compatible with R5 SUPREME CDU 7000 118-530,F and earlier.

#### AIS

The software is designed for use with R5 SUPREME AIS Transponder with SW 1.1.9.

#### NAV

The software is designed for use with R4 Navigation Sensor with SW 6.8-S7/6.8-S8 and routing SW 1.07/1.08.

#### 1.6.2 List of changes

##### AIS & NAV



New features:

- Target classification (friend list)
- MMSI MID to country mapping (including country flags).

Bug fixes:

- Prevent touch/button press when screen backlight is turned off.
- ETA input problem when input 20:00 as time

### NAV

New features:

- Configurable position precision (decimals in position)
- Show HDOP/VDOP values.

Bug fixes:

- Fixed trip log accuracy issues.
- Beacon range unit wrong when using km or sm as unit.
- Beacon database longitude error

## 1.7 SW 1.1.8 (2013-09-10)

### 1.7.1 Compatibility

Tested to be compatible with R5 SUPREME CDU 7000 118-530,E and earlier.

#### AIS

The software is designed for use with R5 SUPREME AIS Transponder with SW 1.1.8.

#### NAV

The software is designed for use with R4 Navigation Sensor with SW 6.8-S7/6.8-S8 and routing SW 1.07/1.08.

### 1.7.2 List of changes

#### AIS & NAV

New features:

- Prevention of poor touch calibration.
- Factory reset also resets touch calibration.
- Removed touch calibration requirement at initial boot.

#### NAV

Bug fixes:

- Fixed trip log accuracy issues.



### 1.8 SW 1.1.6 (2013-06-14)

#### 1.8.1 Compatibility

Tested to be compatible with R5 SUPREME CDU 7000 118-530,E and earlier.

##### **AIS**

The software is designed for use with R5 SUPREME AIS Transponder with SW 1.1.6.

##### **NAV**

The software is designed for use with R4 Navigation Sensor with SW 6.8-S7/6.8-S8 and routing SW 1.07/1.08.

#### 1.8.2 List of changes

##### **AIS & NAV**

Bug fixes:

- Improved support for USB memories.
- Improved touch calibration.

New features:

- Import/export CDU and transponder units' configuration using USB
- Support for software upgrade using SD card
- Added integrity check for software load files.

##### **AIS**

Compliance to IEC 61993-2 Ed 2.0

Bug fixes:

- Last character of received text data via AIS lost.
- SAR name now shown as "SAR: MMSI" when no name is available.

New features:

- Hot standby redundant configuration.

##### **NAV**

Bug fixes:

- GPS corrections source lost after reboot.
- Not possible to enter Satellite Info view.
- Improved automatic scale of tidal plot.
- Crash when trying to sail the route already being sailed.
- DGPS integrity alert alarm issue.

New features:

- Display of magnetic variation.
- Course to steer calculation capability.



### 1.9 SW 1.0.12 (2013-02-20)

#### 1.9.1 Compatibility

Tested to be compatible with R5 SUPREME CDU 7000 118-530,D and earlier.

##### AIS

The software is designed for use with R5 SUPREME AIS Transponder with SW 1.0.12.

##### NAV

The software is designed for use with R4 Navigation Sensor with SW 6.8-S7 and routing SW 1.07.

#### 1.9.2 List of changes

##### AIS & NAV

Bug fixes:

- Limit USB keyboard input to only valid characters.
- Corrected password check for CDU own network settings.

##### AIS

Bug fixes:

- AIS Navigational status could not be set to "Status not defined".
- Factory reset now deletes all AIS messages.

New features:

- Possible to query targets for static and voyage data and persons on board in *Extended Info* view.
- Send SRM to selected target from *AIS Target List* and *AIS Target Plot*.
- Configuration of transponder sensor input via Light Weight Ethernet.

##### NAV

Bug fixes:

- Acknowledgement of NAV alarms via ACK sentence.
- Factory reset now deletes all waypoints, routes and tidal ports.
- Baud rate and sentence output on User 1 & 2 ports now saved non-volatile.
- Fixed MOB button sometimes not working.
- Fixed broken "Sail to Waypoint" functionality.

### 1.10 SW 1.0.1 (Initial release)

#### 1.10.1 Compatibility

##### AIS

The software is designed for use with R5 SUPREME AIS Transponder with SW 1.0.7 or 1.0.11.



**SAAB**

## **R5 SUPREME SW Release notes**

### **NAV**

The software is designed for use with R4 Navigation Sensor with SW 6.8-S7 and routing SW 1.07.



### 2 R5 SUPREME AIS TRANSPONDER SW RELEASE HISTORY

#### 2.1 SW 1.2.1 (2017-06-28)

##### 2.1.1 Compatibility

Tested to be compatible with R5 SUPREME AIS 7000 118-540,G and earlier.

##### 2.1.2 List of changes

- Input of lower case ship name, call sign and destination from external systems accepted and automatically converted to upper case.

#### 2.2 SW 1.1.18 (2016-11-02)

##### 2.2.1 Compatibility

Tested to be compatible with R5 SUPREME AIS 7000 118-540,G and earlier.

##### 2.2.2 List of changes

- Bug fixes for non-IMO modes.

#### 2.3 SW 1.1.16 (2016-03-09)

##### 2.3.1 Compatibility

Tested to be compatible with R5 SUPREME AIS 7000 118-540,G and earlier.

##### 2.3.2 List of changes

- AIS DGPS correction stability fix. Will automatically disable DGPS mode in internal GPS if correction data is insufficient for a position fix.

#### 2.4 SW 1.1.15 (2015-11-13)

##### 2.4.1 Compatibility

Tested to be compatible with R5 SUPREME AIS 7000 118-540,F and earlier.

##### 2.4.2 List of changes

- Added parameter for disabling DGNSS correction input to AIS internal GPS

#### 2.5 SW 1.1.14 (2015-09-22)

##### 2.5.1 Compatibility

Tested to be compatible with R5 SUPREME AIS 7000 118-540,F and earlier.



### 2.5.2 List of changes

- SSD Source identifier for external antenna is saved

## 2.6 SW 1.1.13 (2015-06-23)

### 2.6.1 Compatibility

Tested to be compatible with R5 SUPREME AIS 7000 118-540,F and earlier.

### 2.6.2 List of changes

- ITU 1371-5 Compliance
- PSVDM input for AIS simulation
- 1W Mode control from External Switch option
- New NavStatus settings:
  - 11 = powerdriven vessel towing astern (regional use)
  - 12 = power-driven vessel pushing ahead or towing alongside (regional use)
- GPS Navigation 500m above mean sea level fix

## 2.7 SW 1.1.10 (2014-07-01)

### 2.7.1 Compatibility

Tested to be compatible with R5 SUPREME AIS Transponder 7000 118-540,E and earlier.

The software is designed for use with R5 SUPREME CDU with SW 1.1.10.

### 2.7.2 List of changes

New features:

- Message filter support with function specific license

## 2.8 SW 1.1.9 (2014-03-12)

### 2.8.1 Compatibility

Tested to be compatible with R5 SUPREME AIS Transponder 7000 118-540,E and earlier.

The software is designed for use with R5 SUPREME CDU with SW 1.1.9.

### 2.8.2 List of changes

New features:

- Radio power and frequency test possible using R5 Utility SW 1.0.2.

#### R5 SUPREME AIS TRANSPONDER SW RELEASE HISTORY



- Long Range default channels changed to 75 and 76.
- Config parameter shadow copy added

### 2.9 SW 1.1.8 (2013-09-10)

#### 2.9.1 Compatibility

Tested to be compatible with R5 SUPREME AIS Transponder 7000 118-540,D and earlier.

The software is designed for use with R5 SUPREME CDU with SW 1.1.8.

#### 2.9.2 List of changes

Bug fixes:

- Fix for PoB, HoK and some other additional binary messages not being automatically replied to upon interrogation.

New features:

- Disabled output of own transmissions received from an AIS repeater.

### 2.10 SW 1.1.6 (2013-06-14)

#### 2.10.1 Compatibility

Tested to be compatible with R5 SUPREME AIS Transponder 7000 118-540,D and earlier.

The software is designed for use with R5 SUPREME CDU with SW 1.1.6.

#### 2.10.2 List of changes

Compliance to IEC 61993-2 Ed 2.0

Bug fixes:

- Improved support for USB memories.

New features:

- AIS hot standby functionality for two R5 SUPREME AIS Systems to work in a redundant configuration.
- Discrete alarm acknowledgement signal.
- Added integrity check for software load files.

### 2.11 SW 1.0.12 (2013-02-20)

#### 2.11.1 Compatibility

Tested to be compatible with R5 SUPREME AIS Transponder 7000 118-540,C and earlier.

The software is designed for use with R5 SUPREME CDU with SW 1.0.12.

#### R5 SUPREME AIS TRANSPONDER SW RELEASE HISTORY



### 2.11.2 List of changes

Bug fixes:

- Fix for tanker 1W mode not forcing 1W transmission power.
- Report no timestamp on radio link when sensor data provides no timestamp.
- Non-functional time reported reason as malfunction when actual reason was silent due to switch/silent mode.
- Heading alarm was always reported as OK when using a forced position source.
- Fix for restore configuration and added IP settings and passwords to configuration with are restored.

New features:

- Support for query reply of IEC 61162-1 VER sentence.
- Sensor input priority also considers which sentence data is received in.
- SART alarm is reactivated (made unacknowledged) when a new active SART is received while alarm is still active due to other active SARTs.

### 2.12 SW 1.0.11 (2012-12-10)

#### 2.12.1 Compatibility

Tested to be compatible with R5 SUPREME AIS Transponder 7000 118-540,B and earlier.

The software is designed for use with R5 SUPREME CDU with SW 1.0.1.

#### 2.12.2 List of changes

Bug fixes:

- Transmission of position reports after reboot even when display indicates "Silent" Tx Mode.
- Start-up Tx Mode, transponder could sometimes start in "Normal" Tx Mode after reboot even though it was configured as "Silent" before reboot.
- New alarm "AIS: TX disabled externally" when external silent switch inhibits transmit.

### 2.13 SW 1.0.7 (Initial release)

#### 2.13.1 Compatibility

The software is designed for use with R5 SUPREME CDU with SW 1.0.1.