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1 R5 SUPREME CDU SW RELEASE HISTORY

1.1 SW 1.2.5 (2017-03-12)

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

1.1.2 List of changes
- Navigation function updates
  - Automatic configuration required output to CDU when R5 NAV sensor selected
  - MOB active time now always includes seconds

1.2 SW 1.2.4 (2017-03-08)

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

1.2.2 List of changes
- General update
  - Bug fix

1.3 SW 1.2.3 (2017-03-07)

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

1.3.2 List of changes
- Navigation function updates
  - Support for R5 NAV PRO.
- AIS function updates
  - Support for Tender Tracking product

1.4 SW 1.2.2 (2017-09-28)

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

1.4.2 List of changes
- Issues with extra new line on CDU User Ports removed
- Fixed issue with setting ship dimension in Simplified Mode

1.5  **SW 1.2.1 (2017-06-28)**

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

1.5.2  **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
1.6 **SW 1.1.16 (2016-03-08)**

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

**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

1.7 **SW 1.1.15 (2015-11-13)**

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

**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

1.8 **SW 1.1.14 (2015-09-21)**

**Compatibility**
Tested to be compatible with R5 CDU 7000 118-530,H and earlier.
1.8.2 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 = power-driven vessel towing astern (regional use)
  - 12 = power-driven vessel pushing ahead or towing alongside (regional use)

1.9 SW 1.1.10 (2014-07-01)

1.9.1 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.

1.9.2 List of changes

NAV
New features:
- Support for R4 (D)GNSS Sensors
Bug fixes:
- Beacon station ID sometimes not shown

1.10 SW 1.1.9 (2014-03-12)

1.10.1 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.

1.10.2 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

1.11 **SW 1.1.8 (2013-09-10)**

1.11.1 **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.

1.11.2 **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.
1.12 SW 1.1.6 (2013-06-14)

1.12.1 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.

1.12.2 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.
1.13 SW 1.0.12 (2013-02-20)

1.13.1 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.

1.13.2 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.

1.14 SW 1.0.1 (Initial release)

1.14.1 Compatibility

AIS
The software is designed for use with R5 SUPREME AIS Transponder with SW 1.0.7 or 1.0.11.
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 1.2.3 (2018-02-28)

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

2.1.2 List of changes
- Support for Tender Tracking product.
- Fix for bad corrections causing internal GPS to lose position fix.
- Improved VSWR measurement stability.

2.2 SW 1.2.2 (2017-09-28)

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

2.2.2 List of changes
- Minor bug fixes.

2.3 SW 1.2.1 (2017-06-28)

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

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

2.4 SW 1.1.18 (2016-11-02)

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

2.4.2 List of changes
- Bug fixes for non-IMO modes.
2.5  SW 1.1.16 (2016-03-09)

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

2.5.2  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.

2.6  SW 1.1.15 (2015-11-13)

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

2.6.2  List of changes
- Added parameter for disabling DGNSS correction input to AIS internal GPS

2.7  SW 1.1.14 (2015-09-22)

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

2.7.2  List of changes
- SSD Source identifier for external antenna is saved

2.8  SW 1.1.13 (2015-06-23)

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

2.8.2  List of changes
- ITU 1371-5 Compliance
- PSVDM input for AIS simulation
- 1W Mode control from External Switch option
- New NavStatus settings:
  - 11 = power-driven vessel towing astern (regional use)
  - 12 = power-driven vessel pushing ahead or towing alongside (regional use)
- GPS Navigation 500m above mean sea level fix
2.9  SW 1.1.10 (2014-07-01)

2.9.1  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.

2.9.2  List of changes
New features:
    • Message filter support with function specific license

2.10  SW 1.1.9 (2014-03-12)

2.10.1  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.

2.10.2  List of changes
New features:
    • Radio power and frequency test possible using R5 Utility SW 1.0.2.
    • Long Range default channels changed to 75 and 76.
    • Config parameter shadow copy added

2.11  SW 1.1.8 (2013-09-10)

2.11.1  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.

2.11.2  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.
2.12 SW 1.1.6 (2013-06-14)

2.12.1 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.

2.12.2 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.

2.13 SW 1.0.12 (2013-02-20)

2.13.1 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.

2.13.2 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.
2.14 SW 1.0.11 (2012-12-10)

2.14.1 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.

2.14.2 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.

2.15 SW 1.0.7 (Initial release)

2.15.1 Compatibility
The software is designed for use with R5 SUPREME CDU with SW 1.0.1.
3 R5 NAV GNSS/DGNSS SENSOR SW RELEASE HISTORY

3.1 SW 1.2.3 (2018-03-07)

3.1.1 Compatibility
Tested to be compatible with R5 NAV GNSS Sensor 7000 118-770,A / R5 NAV DGNSS Sensor 7000 118-771,A and earlier.
The software is designed for use with R5 SUPREME CDU with SW 1.2.4.

3.1.2 List of changes
- Support for R5 NAV PRO.
- Support for updating GNSS module firmware.
- Improved configuration of corrections sources (requires CDU with SW 1.2.4).

3.2 SW 1.2.0 (Initial release)

3.2.1 Compatibility
The software is designed for use with R5 SUPREME CDU with SW 1.2.0.