



Saab TransponderTech AB

Saab R4 AIS 5.3.0 release Information

1 R4 AIS SYSTEM 5.3.0 RELEASE INFORMATION

New Class A AIS software (Transponder S/W version 5.3.0, and MKD S/W version 5.3.1) has been made available for the Saab TransponderTech R4 Class A AIS System.

New manuals reflecting the updated capabilities are:

7000 108-011,H,Installation Manual R4 AIS Shipborne Class A Transponder System

7000 108-131,L,Operator Manual R4 AIS Shipborne Class A Transponder System

This document describes software changes compared to the current production software version, with transponder S/W 5.2.0 and display S/W 5.2.0

Main software changes are:

- Full AIS-SART support
 - Active SART are displayed on top of target list as "SART ACTIVE".
 - Display of SART in test mode is configurable. Navigational status 14 cannot be selected (reserved for SART).
- VHF Test function
 - Possibility to perform a transmission/reception test from display
- Automatic tanker mode
 - Transponder will automatically use a low power setting (1W) when vessel type is a tanker and the navigation status is moored and not moving faster than 3kn.
- Support for AIS Base Name.
- New alarm functions
 - Alarm Id 007: "AIS: UTC sync invalid"
 - Alarm Id 010: "AIS: NavStatus incorrect"
When NavStatus is at anchor, moored or aground and the vessel is moving faster than 3 knots alarm ID 10 is generated.
 - Alarm Id 011: "AIS: Heading sensor offset"
 - Alarm Id 014: "AIS: active AIS SART".
- MMSI validity check
MMSI must be in range 200000000 to 799999999. Transponder will activate Alarm Id 001: "TX Malfunction" if an invalid MMSI is used and TX will be disabled.
- Latest addressed SRMs displayed foremost in message view
- Support for long range Message 27 transmissions for improved Satellite detection
- AIR Messages limited to 20 slots per minute.

Inland specific changes

- Improved Convoy handling
 - Inland length and beam are input from convoy settings dialog by specifying amount of extra size in bow, stern, port and starboard.

Antenna location (A,B,C,D) is calculated using ship size (length and beam) and antenna location.

Compatibility:

All previous R4 transponder systems can be upgraded to R4 AIS Class A 5.3.0. Downgrades to previous versions are not supported.



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Both the R4 Transponder and R4 MKD SW shall be of version 5.3.X full compatibility.

Recommendations:

Customers may consider the benefits of the new features and decide whether an upgrade of existing systems is desired.

Production of the new SW versions

This update is not expected to be introduced in production. It will only be available as a SW update for customers who desire to have the updates listed above.