



Saab TransponderTech AB**R4 AIS Class-A System version 5.0 Release Notes**

The release comes with updated versions of the R4 AIS Class-A system installation and operator manuals as well as with a new certificate document set.

New features

- **New layout of display user interface**

The R4 AIS Class A system display user interface has been improved and made more logical and efficient. The majority of all views can be reached by three keystrokes. There is no dedicated engineering mode as such is not needed anymore.

- **‘Class B Compatibility’**

The compatibility with Class B ‘CS’ transponders has been extended. The display will process and display data from AIS messages 18, 19 and 24A/B. A special icon is introduced for Class B targets in the target list and plot views.

- **Manual Query for Static and Voyage Parameters**

It is now possible to generate a manual query to a specific target for static and voyage parameters, provided that the first set of data (message 5) not yet has been received.

- **Manual Query for ‘Passengers on Board’**

It is now possible to generate a manual query for ‘Passengers on Board’. It is configurable whether this function shall be available or not.

- **Extended ‘1W Mode’ functionality**

The functionality for ‘1W Mode’ has been somewhat modified. The ‘1W mode’ will now automatically be disengaged unless navigation state is ‘Moored’ and speed over ground less than 3 knots.

- **Binary text message support**

The R4 AIS Class A display now supports binary text messages apart from SRM:s. Messages received by the transponder can be read. Broadcast and addressed text messages can be transmitted.

- **Error log in non-volatile memory**

The alarm and status lists are now stored in non volatile display memory.

- **Extended Alarm Configurations**

It is now possible to individually configure the results of all alarm conditions. Alarms that not are applicable in a certain installation (for instance due to non-existence of certain sensors) may thus be suppressed.

- **Revised plot view software**

The algorithm for drawing targets in the plot view has been improved. This provides for a less amount of clutter when many targets are to be displayed.



Saab TransponderTech AB

- **Extended character support in text inputs**
The character set for manual text inputs from the display has been extended.

Upgrade package

An update package will be provided by Saab TransponderTech enabling current users of the R4 AIS Class-A system to upgrade to this latest version. The update package consists of new software (and necessary software tools) for the R4 AIS transponder unit and R4 Display unit as well as the new manuals in electronic format. The package includes a new upgrade tool for the R4 AIS transponder that, in addition to installation of the new AIS software, also will upgrade the firmware of the internal GPS module to the latest production standard, securing safe handling of any future leap second shift.

Compatibility with older versions

- The new (version 5) AIS Class-A transponder unit is compatible with the previous versions of the R4 Display Unit. The new features as listed above will not be available if a previous R4 Display version is used. Therefore an upgrade of the R4 Display is strongly recommended
- **The new (version 5) R4 Display unit is not compatible with the previous versions of the R4 Transponder Unit.** Consequently, the transponder should be upgraded if a Version 5 display is installed onboard. Version 5 displays will be possible to identify from previous versions by a new product specific part number label applied to the unit.

Changes to product part numbers

Along with the introduction of version 5 in production, the main system components product numbers are changed accordingly.

- R4 AIS Transponder product number will be changed from 7000 100-552 to **7000 100-856**.
- R4 AIS Display product number will be changed from 7000 108-040 to **7000 108-290**.