



---

## Saab TransponderTech AB

### Saab R4 AIS 5.3.1 release notes

#### 1 R4 AIS SYSTEM 5.3.1 RELEASE INFORMATION

To pro-actively prevent GPS Week rollover problems in some R4 AIS systems, a new R4 Class A AIS transponder software S/W version 5.3.1 has been made available.

The updated transponder software is designed to work fully with R4 AIS Display S/W version 5.3.1

This document describes software changes compared to the previous available transponder software version 5.3.0

#### Software change:

- GPS Week rollover fix – automatic detection and adjustment of miscalculated internal GPS date.
  - R4 transponders with serial number **24000** or higher are NOT affected, only older systems (estimated sales year before 2011)
  - After Aug 16 2015, R4 Transponders with serial numbers below **24000** may become affected by a GPS week rollover issue, after a longer power off period (5-7 days)
  - Actual rollover date depends on GPS HW and FW. Some systems may be affected **August 16 2015**, while others will work with correct date until 2017.
  - If affected systems are not updated before the rollover, the system date may become 1024 weeks behind, after a longer power off, and the transponder will no longer be able to operate in UTC Direct mode (VHF datalink synchronized to internal GPS).

#### Compatibility:

- All previous R4 transponder systems can be upgraded to R4 AIS Class A 5.3.1. Downgrades to previous versions are not supported.
- Both the R4 Transponder and R4 MKD SW shall be of version 5.3.X for full compatibility.

#### Recommendations:

R4 transponders with serial numbers below 24000 should update to ensure optimal operation after August 16 2015. Contact your local service center or our customer support for details on how to update.