



Software release notes

Release 6.10

- Added 500+ channels. FPGA version 4.46 or newer is required.
- Added functionality for Power Save. FPGA version 4.46 or newer is required. The minimum ping rate for Power save is 3 seconds.
- Added new functionality to handle Modem and Hugin AUV requirements.
- Added sensor data in the navigation data reply for beacon mode.
- Initialized to vertical transducer during start up for all transducers.
- Additional information added to Read status reply telegram. Extended channels and Power save status is available.
- Added Sensor data for Responder positioning. Sensor has to be enabled.
- Added new Release functionality (several release outputs).
- Added MGC attitude sensor.
- Added Strain sensor.

Improvements

- Correction in Cymbal wideband detection method used in FSK navigation.
- Correction in fragment handling for Cymbal.
- Added LF functionality for Acoustic test.
- Correction of FSK beacon mode. Bug caused by telemetry receives which blocked the beacon.
- Improvement of serial line communication.
- Correction in the Responder trig functionality. The cNODE had to go to sleep mode when

going from SSBL mode to Responder mode the second time.

- Improved internal tilt measurement. Vector calculations implemented instead of using accelerometer values.

Release 5.07

- Added support for Octans sensor, both in FSK and Cymbal mode
- Added support for Lithium EX batteries. The maximum power setting for transponders with EX batteries will be limited to high

Improvements

- Correction for Compass sensor in FSK pulse positioning

Release 5.03

Improvements

- Corrections for automatic test during manufacturing

Release 5.02

- Added multiuser LBL in both FSK and Cymbal mode
- Added functionality for MSM multi-sensor module
- Added sensor data in replies from a beacon transponder
- Added support for MSM multi-sensor module when transponder is master in LBL TP positioning
- Added Cymbal LF functionality
- LBL mode is disabled if transponder receives a disable command

Improvements

- Improved responder trigger detection on noisy trigger lines

- Improved/updated battery lifetime calculations

Release 4.12

Improvements

- The transponder is initialized to minimum TX power upon startup
- Improved startup sequence of the transponder, certain conditions could result in a hang-up earlier

Release 4.07

- Added functionality for sensor logging in SIO modules

Improvements

- Improved FSK telemetry
- Improved battery lifetime calculation

Release 3.11

Improvements

- Corrected transducer signal delay
- Increased robustness to interfering telemetry

Release 3.10

- Implemented LBL TP positioning

- Added functionality to change between Cymbal and FSK

- Increased maximum number of baseline measurements from 8 to 32 in one measurement set

Improvements

- Corrected the FSK RX gain reported after the transponder had been in sleep mode. It was always reported High, independent of the actual setting
- Improved pulse positioning for current sensors in FSK mode

Release 3.08

- Added function to read the product information (serial numbers) of the internal components of the transponder via acoustics and serial line
- Internal tilt sensor available both in Cymbal and FSK mode

Improvements

- Corrected the **lock horizontal** function for 30V30H transducers