



Release 2.15.4 (XP)/Release 3.5.4 (Win7/XP)

New functions

- Added support for HiPAP 200.

Improvements

- In an LBL array, when reply from one transponder was missing, no LBL position was computed and no telegram sent to DP.
- Receive filters for Remus channels on HiPAP 502.
- Startup when transceiver network is disconnected.

Release 2.15.1 (XP)/Release 3.5.1 (Win7/XP)

Improvements

- Fixed a memory leak that could lead to a crash.

Release 2.15.0 (XP)/Release 3.5.0 (Win7/XP)

New functions

- Added support for FSK channel B33 and B44.

Improvements

- Improved range accuracy for Cymbal (M channels) and FSK (B channels).
- Improved robustness of Cymbal receiver.

Release 2.14.5 (XP)/Release 3.4.5 (Win7/XP)

New functions

- Added support for HDG NMEA sentence as heading.

Improvements

- Improved detection of LBL and Fast track pulses close in time.

Release 2.14.3 (XP)/Release 3.4.3 (Win7/XP)

Improvements

- Fixed a power down alarm occurring every hour when the transceiver is in power down mode.

- The transducer check/system report used wrong frequency when measuring HiPAP 101.

Release 2.13.3 (XP)/Release 3.3.3 (Win7/XP)

Improvements

- Added restart of navigation task if unresponsive.
- Fixed a problem with telemetry wakeup from power save on channels M101 and higher.

Release 2.13.0 (XP)/Release 3.3.0 (Win7/XP)

This is for HiPAP xx1 series systems with the Cymbal option.

New functions

- Support for Kongsberg Seatex MGC.

Improvements

- Fixed a problem that caused noisy measurements at certain distances in track mode.

Release 2.12.3

- Improved detection of emergency channels

Improvements

- Fixed a minor problem with beacon mode and attitude timing that caused attitude warnings
- The TRX32 card auto reset when data loss has been removed

Release 2.12.1

Improvements

- Adjusted limits for transducer check on HiPAP 101. Fixed impedance in system report.
- Fixed a problem with autoselect of 2 Gyro/VRU's.
- Improved reporting of Gyro/VRU errors.

Release 2.12.0

- New filters added for LPT32 and uPAP. (Requires uPAP FW 1.15)
- Telemetry decoder improvements.

- Added reporting of attitude statistic data to APOS.
- Added reporting of extended version information to APOS.

Release 2.11.1

- Default gyro tolerance changed from 2.0 to 0.5 degrees.

Improvements

- Fixed a problem with uPAP and FSK (B channels).
- Improved handling of external trigger timeout for Dual HiPAP and Multi LBL.

Release 2.11.0

- Added support for Multi LBL.
- Most of the configure menus are now accessible when logged on as normal user, but the OK button is disabled. Log on as service in order to change settings.
- Added support for running more than one LBL activity.
- Improved auto select for VRU and Gyro.
- uPAP support added.

Improvements

- Fixed a problem with reconnecting to transceiver cards after power down.

Release 2.10.0

Improvements

- The update rate was not displayed for an input that only had one gyro
- The Gyro input was marked as error for an input with MRU only
- A Gyro input with same input as an MRU was sent to APOS with an error status

Release 2.9.3

- The power down time can now be set to 1440 minutes (1 day.)
- Improved error/alarms reporting for Gyro/VRU failure

Improvements

- Improved position time tag when using sensors in transponder
- Fixed a problem with telemetry to FSK transponder in LBL calibration mode. If the transponder was in power down mode, telemetry would fail
- Added automatic reset of TRX32 cards that reports RxSetFPAConfig() error

- Fixed error messages if Gyro input and VRU input no. were different
- The supervisor sometimes failed to restart HiPAP

Release 2.9.2

Improvements

- Improved start up of TRX32 cards after power down

Release 2.9.1

- Added an option to restart the HiPAP program when the transceiver boards are restarted
- Added a monitoring function that will reset the TRX cards if no rx data is received

Improvements

- The system report now shows heading sensor for Seapath
- Improved startup after power down
- Fixed a problem with FSK telemetry while positioning active on the same transponder
- Added missing timestamp on text messages

Installation

- The supervisor is now configured as default
- The retrofit system configuration can now be selected as an install option
- A new program called HiRes is installed on retrofit systems. This program allows APOS to start remote HiPAP's

Release 2.9.0

- Added a new configure menu for cabinet type
- Removed clock adjustments as APOS 4.22.4 and newer don't need it
- Added process supervisor. This program will automatically restart HiPAP if the program crashes or stops
- Added TSS3 as attitude input format
- Added Hugin telemetry support

Improvements

- Saving binary log data will now always be in the \HiPAP\data folder
- Improved booting of TRX32 cards
- Improved handling of attitude data on Ethernet

Installation

- Added FixCom, WcomTst and IpConf

Release 2.8.1

Improvements

- Fixed an error in time synchronization of the HiPAP computer

Release 2.8.0

- Updated support for Multiuser
- Added support for sensor data from LBL and multiuser LBL

Improvements

- Improved handling of Cymbal depth beacon
- Added missing updated of transducer sound velocity in Cymbal receiver
- Fixed an error that could cause HiPAP to continue to interrogate a transponder after telemetry even if the transponder was turned off in APOS
- Attitude compensation of SSBL position used attitude at wrong time

Release 2.6.0

- Added IP address to system report

Improvements

- Fixed a problem rebooting the transceiver if the transceiver is turned off/on manually
- Emergency channels did not work. Fixed in this release
- Added support for Cymbal Multiuser
- Fixed an error in HiPAP 351 beam forming that gave unstable positioning (this error was introduced in release 2.4.5)

Release 2.5.0

- Added support for Cymbal LBL sensor data. NOTE! This requires APOS 4.20.0 or newer
- Added support for Cymbal Multiuser. NOTE! This requires APOS 4.20.0 or newer
- Added alarm when Gyro/VRU stops for more than 30 seconds

Improvements

- Fixed an error in telemetry timeout message to APOS

Release 2.4.5

- Added support for Octans \$PHOCT attitude message
- Added support for Cymbal LF

Improvements

- Fixed an error in HiPAP 351 beam forming for Cymbal

Release 2.4.4

- The timer interval for power off can now be adjusted from 5 to 59 min

Improvements

- Fixed an error in LBL tracking

Release 2.4.2

- Added a separate thread for continuous update of interval messages

Release 2.4.1

- Added interface information in system report

Improvements

- LBL position had Attitude from wrong point in time
- LBL position receive time stamp were wrong
- If the transceiver entered power down mode with external trig enabled, the system could enter a "hang" mode. This is fixed

Release 2.4.0

- Added support for FastTrack mode

Release 2.3.4

Improvements

- Improved handling of remote Hull Unit and Gate Valve

Release 2.3.3

Improvements

- The transducer test / System report showed to high values for voltage/current/power from version 2.3.0. This was due to a different filter used. The values should now be in line with the values from before release 2.3.0.
- Fixed an error in FSK telemetry wakeup
- Gyro/ VRU parameters were reset when transducer parameters were updated

Release 2.3.2

Improvements

- LBL positioning on Cymbal did not report time out on undetected ranges to APOS in track mode

Release 2.3.1

Improvements

- LBL Tp positioning sequence mode did not work. Fixed. Note: requires APOS 4.16.0 or newer
- HiPAP sometimes showed 0 as gyro value when positioning

Release 2.3.0

- FSK now uses same sampling rate as Cymbal. This eliminates switching delay between FSK and Cymbal

Improvements

- Fixed a timeout error in tracking mode on long ranges

Release 2.2.4

Improvements

- Fixed an error in tracking responders
- Fixed a problem with restoring the Attitude view

Release 2.2.3

Improvements

- Fixed a bug in tracking of more than one transponder

Release 2.2.2

Improvements

- Fixed an error in handling of transponders with sensors
- Fixed a problem with tracking of transponders of different depth in FSK

Release 2.2.1

Improvements

- The interrogation rate on the HiPAP was higher than selected in APOS. This could cause timeouts because interrogations were faster than the transponders can handle
- The Shortcut icon for starting HiPAP had wrong parameters
- The Attitude output for Ethernet did not work as expected

Release 2.2.0

- Added support for Ixsea Octans TAH (\$PHOCT) R-P-H attitude format
- Added support for Attitude output from selected VRU with EM3000 format

Improvements

- HiPAP 100 upgrade installed wrong filter files for the TRX32

Release 2.1.2

- Added a utility in the installation program that automatically will upgrade the transceiver type in APOS from XX0 to XX1

Release 2.1.1

- Changed reporting of transceiver power down status
- Improved reporting of Gyro/VRU failure

Release 2.1.0

- Added support for up to 3 attitude inputs
- Added measurement of attitude rate. This is displayed in the attitude window. It is also included in the system report
- Added auto-exclude of erroneous receiver channels. A warning is displayed in the APOS Alarm view when this happens
- Changed transceiver status reporting to APOS in power down mode
- Auto-select of Gyro and/or VRU is now supported
- Added support for Remus channels
- Disabled the Windows close function. One must now use the File menu to close the program

Release 2.0.1

- Changed subnet mask for TRX32 communication
- Responder did not work as expected for Cymbal channel

Release 2.0.0

- First release with Cymbal support

Release 1.5.3

- Added option for turning off directional average in the configuration dialogue
- The configuration dialogue now displays the responder unit IP address

Release 1.5.1

- The system report can now be generated from APOS. (Requires APOS 4.11.0 or newer)

Improvements

- Improved startup after transceiver in power down mode

- Fixed a reporting error that could cause all elements to be reported as disabled
- The transceiver Online/Offline status now reflects the status of the physical transceiver. (Requires APOS 4.11.1 or newer)
- There was an error in timeout when using external synch via serial line

Release 1.5.0

- HiPAP now supports external synch via serial port CTS
- Multiuser mode is now added
- Improved system report

Improvements

- 15 degree search sector did not work for HiPAP 500. Fixed
- Fixed an error that causes no signal detection when with low level signals
- The interval telegram sometimes reported VRU error sample rate errors. Fixed
- Transmitter beam steering should now work

Release 1.4.12

Improvements

- HiPAP now automatically prefers and selects the \$HEHDT if received together with other HDT NMEA messages

Release 1.4.11

Improvements

- Time stamping of transponder positions with sensor (Depth/inclo etc.) was wrong
- 15 degree search sector did not work for HiPAP 501. Fixed

Release 1.4.10

Improvements

- Improved start up sequence
- An error in computation of position age was corrected

Release 1.4.9

Improvements

- Octans NMEA \$PHTRO,x.xx,a,y.yy,b (roll/pitch), the roll and pitch values were interchanged

Release 1.4.8

- The SW for TRX32 is updated to support network testing. The Network test introduced in 1.4.7 will not work without it

Release 1.4.7

- The HiPAP program now runs with realtime priority
- Added better support for changing receiver gain
- Added support for Octans NMEA \$PHTRO,x.xx,a,y.yy,b (roll/pitch) and \$PHLIN,x.xxx,y.yyy,z.zzz (roll/pitch/heave)

Improvements

- The startup sequence after power up on the transceiver could sometimes be very slow and sometimes hang (introduced in release 1.4.4). This is fixed

Release 1.4.3

Improvements

- Fixed an error that caused HiPAP to crash if LBL positioning was started as first activity after reset

Release 1.4.2

- Improved error reporting for VRU errors
- Added support for \$PSXN,23 attitude format. The formats are now described in the APOS help file

Improvements

- The warning dialogue that pops up at startup regarding network problems could stop APOS communication. The dialogue is now modeless and stays on top of other windows
- Fixed a timeout bug for telemetry
- Long telemetry sequences could fail. This is now fixed

Release 1.4.1

- The system report now includes the network interface used for the transceiver
- Added provision for running HiPAP with reduced number of TRX32 cards. NOTE! Search sector must be reduced!
- The system will now accept configuration with only MRU input as vertical reference. Earlier versions generated error messages when no gyro was configured

Improvements

- Removed error message; Illegal letter type 19 on startup

- Fixed a synchronization problem that caused transponder update rate to very low on large depths
- Adjusted voltage/current/power acceptance levels on LF transducer test

Release 1.4.0

- Beam steering is now operational
- Added support for emergency channel transponders
- Added scan for faulty receive channels
- Some menus requires login as service. Login is valid for one hour
- Added support for the responder interface unit with 8 responder outputs
- Added support for external trig

Improvements

- Removed Heading /VRU error messages to APOS when no attitude sensors are defined

Release 1.3.2

- The HiPAP 501/451 will shut down the electronics after 15 minutes of inactivity
- Support for Attitude/Heading input from Ethernet/UDP added. (NOTE! APOS MUST be configured with IP 192.168.127.1 Port 4001 for MRU inside 351P head)
- NOTE! Beam steering is disabled

Improvements

- Heave was not sent to APOS when enabled. (Must have APOS 4.5.1 or newer in order to fix this.)

Release 1.3.1

- Added System report for HiPAP
- Added transmitter sequence test
- It is now possible to reconfiguring the Attitude sensors in APOS without restarting HiPAP

Improvements

- The order of the boards listed in the Voltage/Current view were wrong
- Restart of HiPAP did not always reconnect to all boards when in idle mode
- Fixed problems configuring different attitude sensors

Release 1.3.0

- Support for HiPAP 101 is added
- Spectrum analyze now works
- Changed the configuration settings in APOS and HiPAP for Gyro/VRU serial lines and offsets

- Voltage measurements are done every 10 seconds
- Transducer power output can be checked in the Utilities menu. Erroneous elements are reported
- Beam steering is implemented for navigation mode
- Improved timing on MRU data

Release 1.2.2

- The attitude fix in the last release introduced a bug in reading the gyro. Fixed

Release 1.2.1

- Added option for enabling/disabling use of the internal VRU
- Fixed an error causing erroneous attitude compensation

Release 1.2.0

- Fixed an error causing no detection of replies over 2000 m
- Improved status reporting of TRX32 versions and voltages

Release 1.1.1

- Synch out is now only enabled for responder pings

Release 1.1.0

- The HiPAP software will now automatically switch off power on most of the electronics for the portable system when the system has been inactive for 10 minutes. Power off will also happen when the HiPAP program terminates. Activating a transponder or running telemetry will turn the system on again. The reason for this is to limit heat dissipation inside the subsea transceiver/transducer. The VRU will continue to operate
- The configure menu now has a Attitude output entry. The VRU data received on a Ethernet from the VRU inside the portable unit, may now be transmitted either as Ethernet UDP data or serial data to other systems. NOTE! The data input rate is 100 Hz, this rate may be too high for many serial ports. The setup has provision for decimating this rate. The format is EM3000
- If the update rate for gyro values were less than one second, a zero value was used. The system will now always use the last valid gyro value if newer than 3 seconds

Release 1.0.0

- Initial version
- First program release for TRX32. Should be used with APOS 4.3.7 or higher