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| <input type="checkbox"/> Mandatory<br><input checked="" type="checkbox"/> Strongly Recommended<br><input type="checkbox"/> Optional |
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**Subject: Marksman/Ranger 2 Pro/Ranger 2 V4.05.02 Software Release**

As part of Sonardyne's continuous programme of product development, we are pleased to announce the release of V4.05.02 of all variants of Marksman LUSBL and Ranger 2 Pro/Ranger 2/Mini-Ranger 2 USBL system software.

Main features of this update are:

- The NANO Transponder is now supported with full Acoustic Telemetry to ensure correct setup
- A Resource Management problem seen when repeatedly Adding/Removing Beacons via Remote Control has been fixed
- The User can now set the Power and Gain for Beacons added via Remote Control (default is Low/Auto)
- A problem which stopped Simulated Output Telegrams unless they were in World Frame has been fixed
- A Simulate problem with the SSB Sprint Telegram has been fixed
- Fixes time synchronization issues with GPS time sources sending multiple telegram types

**Note:**

- Ensure HPT firmware has been upgraded to V3.05.01.07 or higher prior to installing Marksman/Ranger 2 V4.05.02.
- HPT's with serial numbers prior to 280000-001 may have old bootloaders which will need upgrading prior to any software / firmware update. See Technical Bulletin TB15-001 for guidance.
- Security key (dongle) update may be required if upgrading from older software versions.

The following instrument firmware versions have been tested with this software version. As a minimum, these firmware versions must be installed in each component when used with this version of software.

Instrument	Firmware	Instrument	Firmware
Navigation Sensor Hub (NSH)	2.02.00.104	Ethernet Serial Hub (ESH)	Rel1_RevB_7(2.0.6.15/2.1.3.0)
5G USBL Transceiver (8021/ 8023)	8.08.00.02	6G USBL Transceiver (8142,8212,8221)	3.08.02.03
Compatt 5	10.12c/3.08A	Compatt 6	3.05.07.09a/2.06M
ROVNav5	8.07.02/2.04D	ROVNav 6	3.05.06.12/2.06M
		Lodestar	3.00.00.946

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Page 2 of 2

Issue/Revision: 1

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