Sonardyne

Release notes.

SPRINT-Nav

27/10/2026

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1 Release note applicability

These release notes contain information on the latest recommended versions of software for SPRINT-Nav products, including:

- SPRINT-Nav U (type number 8358)
- SPRINT-Nav M (type number 8425)
- SPRINT-Nav (type number 8384)
- SPRINT-Nav DP (type number 8388)

2 Release note introduction

2.1 Release note terminology

Releases will be described by the month and year of their release, e.g. "SPRINT-Nav release July 2026". Unless explicitly stated otherwise, it should be assumed that the latest release builds on the previous release.

Not all SPRINT-Nav software releases will be applicable to all SPRINT-Nav hardware versions. The software versions applicable to the release will be shown in a table as below.

Product	Status	Version
SPRINT-Nav U	Not available	x.x.x.x
SPRINT-Nav M	Not available	x.x.x.x
SPRINT-Nav	Recommended	x.x.x.x
SPRINT-Nav DP	Not available	x.x.x.x

Alongside the above, the recommended versions for supporting products will also be provided.

Product	Status	Version	API Version
Fusion 2	Not available	x.x.x.x	x.x.x.x
Janus	Not available	x.x.x.x	x.x.x.x
Origin Viewer	Recommended	x.x.x.x	x.x.x.x

Releases will be classified as below.

Classification	Information
Not available	A release with this functionality is not available for this hardware version of SPRINT-Nav
Recommended	This release contains recommended feature or performance improvements

2.2 Semantic Versioning

Sonardyne use semantic versioning whereby the following rules apply:

V a.b.c+dddd where:

- **a** = major revision number (range 0 – x, no leading zeros)
- **b** = minor revision number (range 0 – x, no leading zeros)
- **c** = interim release number (range 0 – x, no leading zeros)
- **d** = build ID (optional, 0001 – xxxx)
- **Major Revision Number** – This number should be increased whenever a change is made that is not backward compatible with the previous version of the f/w or s/w (e.g. changed or removed commands, interfaces, protocols or configuration parameters). When increased, the minor revision and interim release numbers are reset to 0. Major revision 0 indicates initial development, where the interface is not yet stable.
- **Minor Revision Number** – This number should be increased whenever new backward-compatible functionality is added to the f/w or s/w, or existing functionality is deprecated. When increased, the interim release number is reset to 0.
- **Interim Release Number** – This number should be increased whenever a new release of an existing released version is required to make backward-compatible bug fixes only.
- **Build ID** – This optional ID, appended after a "+", identifies a specific build of a version. It is ignored when determining which version is newer, so any new release must receive a new a.b.c number.

3 Current versions (updated October 2026)

The tables below show the current release versions of firmware for the SPRINT-Nav family and supporting products.

Product	Status	Version	API version
SPRINT-Nav U	Recommended	2.01.01.1220	2.1.0
SPRINT-Nav M	Recommended	2.01.01.482	2.1.0
SPRINT-Nav	Recommended	2.01.01.3234	2.1.0
SPRINT-Nav DP	Recommended	2.01.01.3234	2.1.0

Product	Status	Version
Fusion 2	Not available	x.x.x.x
JANUS	Recommended	1.08.03.x
Origin Viewer	Recommended	2.2.6

4 October 2026 SPRINT-Nav release (2.01)

This software release is focused on implementing LBL range aiding features for a future Fusion 2 release and contains improvements for users who rely on HNAV for vehicle control.

Alongside the above the release notably includes:

- Adds the Watson/Tritech heading, pitch and roll message.
- Updates HNAV to version 2, now containing accelerations.
- Increases DVL maximum operation rate.
- Adds an "operational" settings area for configuring advanced settings.
- Chart improvements.
- Allows users to configure a blanking distance from the DVL to achieve more reliable bottom lock and to reduce the impact of aeration/noise when on the sea surface.
- Adds LBL aiding functionality to SPRINT-Nav via API.
- Bug fixes.

4.1 SPRINT-Nav release versions

Product	Status	Version	API version
SPRINT-Nav U	Recommended	2.01.01.1220	2.1.0
SPRINT-Nav M	Recommended	2.01.01.482	2.1.0
SPRINT-Nav	Recommended	2.01.01.3234	2.1.0
SPRINT-Nav DP	Recommended	2.01.01.3234	2.1.0

4.2 Supporting product release versions

Product	Status	Version
JANUS	Recommended	1.08.03.x
Origin Viewer	Recommended	2.2.6

4.3 Features

The features below improve performance, user experience or add functionality to SPRINT-Nav:

ID	User Value
891	Displays 2D distance between SPRINT-Nav position and USBL aiding sensor, helping monitor drift when other aiding is disabled.
1241	Displays 2D distance between SPRINT-Nav position and GNSS aiding sensor, helping monitor drift when other aiding is disabled.
1242	Adds pop-up notifications when an external API, e.g. Fusion 2, changes SPRINT-Nav settings, improving visibility and traceability.
1243	Adds a clear connection indicator and alerts for Fusion 2 links, showing when SPRINT-Nav is connected or disconnected.
1247	Adds a configurable minimum altitude (blanking distance) to prevent DVL tracking off the sea chest, improving navigation reliability.
1584	Adds water-track data to the PD4 output message.

1693	Adds depth and altitude to the chart display and reorganises layout for clearer ROV/vehicle situational awareness.
1904	Adds support for 15 Hz and 20 Hz DVL output rates, increasing maximum data update rate beyond 10.5 Hz.
1984	Adds all amber and red alarm events to the event log for full real-time traceability of system alerts.
2077	Introduces an updated HNAV output message format (HNAV V2).
2078	Adds a locked operational settings area for configuring raw DVL logging, onboard logging, and battery charging.
2082	Improves the LBL chart display with free pan/zoom and consistent error ellipse scaling to match Fusion 2.
2083	Improves the LBL data view with clearer beacon and ranging tables, plus human-readable status messages for ranges.
2088	Adds the ability to enable or disable DVL aiding in the INS and AHRS from the web UI, Fusion 2, or API.
2089	Adds SFTP connection details directly to the web UI, making log retrieval easier to find.
2090	Introduces LBL range aiding licence tiers, letting users unlock Fusion 2 or API-driven autonomous LBL range aiding.
2373	Adds continuous background evaluation and residual feedback across all aiding types, even when disabled, for clearer LBL status.
2435	Adds support for 230,400 baud serial communications.
2482	Adds support for outputting Watson/Tritech-compatible gyro heading messages from SPRINT-Nav.
2934	Adds XPOS support to SPRINT-Nav DP. Note: XPOS cannot be enabled on the dashboard, only via the aiding tabs.

4.4 Bug fixes

The changes below fix bugs from previous versions which may have had a user impact.

ID	Information
836	Clarifies network port configuration display by labelling ports with TCP/UDP protocol prefixes, reducing setup confusion.
1483	Warns users in the web UI when DVL/ADCP ping ratio is set below the supported minimum (1:5).
1761	Displays DVL operating frequency on the web UI, as it is no longer shown in the product name.
1896	Fixes Serial Tx overflow when outputting XLHNAV messages.
2367	Fixes the XPOS tab so communications data can be viewed correctly instead of remaining greyed out.
2413	Warns users if a gRPC port is set to match an existing network port, preventing silent connection failures.
2453	Adds validation so an incorrectly sized remote point list sent via M2M is properly rejected as invalid.
2459	Fixes occasional data loss on serial ports when simultaneously transmitting and receiving, preventing dropped aiding message bytes.
2466	Dashboard now shows DVL as "aiding disabled" rather than fully disabled, since altitude/ADCP output remains available.
2530	Corrects the network service name advertised over mDNS so SPRINT-Nav is discovered correctly on the network.
2540	Fixes overlapping legend and text on the DP dashboard for clearer readability.
2546	Corrects misleading onboard logging help text that wrongly warned all log files would be deleted.
2560	Fixes the machine-to-machine interface not reporting whether external velocity (XVEL) aiding is enabled.
2561	Fixes repeated false serial transmit overflow warnings when outputting high-rate 200 Hz data over low-speed serial connections.
2570	Prevents duplicate ZDA time messages when two outputs share a port, avoiding confusion in third-party systems.
2615	Fixes GST messages with null fields being rejected, improving compatibility with GNSS receivers.
2624	Ensures automatically generated output messages are correctly counted against the configured output bandwidth limit (500 Hz). For example, DVL does not have a user-configurable output rate.
2632	Fixes external depth aiding not being disabled when configured to be turned off.

2643	Prevents assigning the same port to both an output and a time input trigger, with clearer error feedback.
2666	Fixes delayed reporting of external power loss, previously raised several minutes after power was actually removed.
2669	Fixes the shutdown command not working when the unit is running on battery power.
2691	Fixes GNSS position data on the External Control port also being incorrectly used as USBL aiding.
2715	Fixes manual position commands sent via the M2M interface not being applied.
2729	Fixes AHRS initialisation progress indicator so it no longer intermittently drops to 0%, giving accurate status.
2807	Adds missing serial control for COBS framing.
2900	Fixes COBS encoding of multiple packets.
2922	Corrects an incorrect talker ID in HDT heading messages so downstream systems interpret heading data correctly.
3080	Fixes an issue in PD4 where water-track measurements were output in a PD0 convention. See manual for correct message definition.

4.5 Notes

- **Sonardyne recommend use of the gRPC or framed API. JSON will be deprecated in a future release. Contact support@sonardyne.com referencing these release notes if this is an issue.**
- For DP systems the API may be used to configure USBL and vertical aiding settings, but these aiding sensors are not available on DP systems, so cannot be used.
- Port link cannot be configured via the User Interface in this release. Port configuration will be carried over from the previous software release and this issue (3526) will be fixed in the next release.
- The SPRINT-Nav web User Interface has been updated and may not work on older browsers; use the latest versions of Firefox/Chrome.

5 May 2026 SPRINT-Nav release (2.00)

This software release is the initial release of software for all SPRINT-Nav platforms. As an initial release, features are not noted here.

5.1 SPRINT-Nav release versions

Product	Status	Version	API version
SPRINT-Nav U	Recommended	2.00.00.955	2.0.0
SPRINT-Nav	Recommended	2.00.00.2590	2.0.0
SPRINT-Nav DP	Recommended	2.00.00.2590	Not supported

5.2 Supporting product release versions

Product	Status	Version
JANUS	Recommended	1.08.02.291
Origin Viewer	Recommended	2.2.6

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