

# NORBIT

*-explore more-*

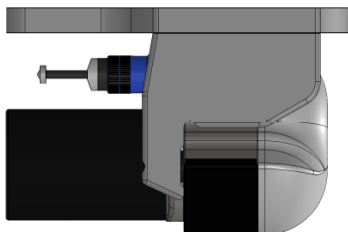
## WBMS Release Notes

TN-140079-D1

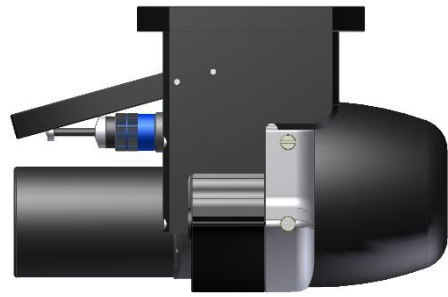
10.3.6 Release



[WBMS](#)



[iWBMSc](#)



[iWBMS - Family](#)

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## Disclaimer

While every effort is made to ensure the information given is accurate, NORBIT does not accept liability for any errors or omissions. All non-metric weights and measures are approximate. Specifications and other information in this document are subject to change without notice.

## 1 Introduction

This document outlines the changes to software and firmware of the NORBIT WBMS, iWBMSc (Compact) and iWBMS - Family (iWBMSe, iWBMS & iWBMSH) to version 10.3.6.

Version 10.3.6 contains several usability improvements and bug fixes. In addition Applanix firmware 9.80 is now supported allowing NORBIT users to take full advantage improved positioning.

**Please contact Subsea Support for questions about HW/FW compatibility with this release.**

## 2 Firmware Updates

All bottom detection computations are made by the compact and highly efficient processors inside the sonar head. Firmware is therefore installed in the sonar head utilizing the GUI software. This section outlines the running list of firmware changes to the version listed.

### Release 10.3.6

- Bug fixes
- Further improvements to bottom detections
- Passive and Headless mode for special use cases

### Release 10.3

- NORBIT STX
- Improvement to snippets
- Improvements to bottom detections and feature detections
- TSS1 support for roll stabilization.

### Release 10.2

- Dual head fully integrated
- Improvements to quality flagging
- Equidistant up to 512 beams for single head & 1024 for dual head
- Roll stabilization up to 512 beams for single head & 1024 for dual head
- 3D Mapping controls & interface.

Upgrade to POS firmware 9.06 (Required for new INS GUI)

### Release 10.0.Hotfix

- Firmware allowing GUI to override packet request
- Bug Fixes
- iWBMS family only: Upgrade to PosView 8.64

### Release 10.0

- Update to adaptive gates
- Update to allow for 210° swath angle
- Snippets is available as an output option
- Roll stabilization is available and usable to a 160° swath angle
- Water column output using compact record 7042
- iWBMS only: Upgrade to POSView and firmware 8.46
- iWBMSc only: Upgrade to Novatel FW OEM042 allowing for INS calibration

## 3 Software (GUI) Updates

Graphical User Interface (GUI) changes will be most obvious to the user. The GUI is also closely partnered with many large firmware changes and therefore a change in firmware may bring a change to the GUI. The GUI provides full sonar control as well as the real-time look and feel of the system operation to the user. This section outlines the running list of software GUI changes to the version listed.

### Release 10.3.6

- Positive Z value warning in INS setup
- Support for Applanix firmware up to and including 9.8
- Passive and headless mode for special use cases
- Improved warnings in wedge info display

### Release 10.3

- STX controls including scanning and pitch stabilization.
- TSS1 configuration under INS tab
- Bug fixes

### Release 10.2

- Removal of PosView, integrating features into the GUI including INS setup (Applanix Family only)
- Mixed Mode Gates. Upper depth and lower range.
- Selection for Equiangular and equi-distance up to 512 beams for single head 1024 for dual head
- Selection for roll stabilization up to 512 beams, 1024 for dual head.
- Data playback during acquisition.
- Auto connection upon sonar boot up
- Customer defined preset buttons for quickly swapping sonar settings.
- Combined sidescan display for dual head, one waterfall for both heads.

### Release 10.0.Hotfix

- Data push, allowing version 10 to be used with PSD2000 and EIVA.
- Additional bug fixes

### Release 10.0

- Selection for Roll Stab
- Added option to record raw GUI data
- Changes to GUI layout
- Bug Fixes
- Sonar applied TVG option
- Subscription service for data packets

## 4 Hardware Updates

### iWBMS<sub>e</sub> long cable use

Users had reported that they were seeing intermittent IMU failures when the iWBMS<sub>e</sub> was used with a non-standard cable length >8m. This hardware issue has now been fixed with this release. Cable lengths of up to 50m can be used with the iWBMS<sub>e</sub>. This is a hardware fix and any system experiencing issues will need to be returned to NORBIT for application of this hardware fix.

## 5 Significant Additions

This sections highlights, in more detail some of the features that have been added and improves in 10.3.6

### Support for Applanix FW 9.8x

The NORBIT GUI will now function with Applanix firmware 9.8. This firmware gives improved heave calculations along with improvements to the BD982 GNSS Cards. Marinestar G2+ G4 and G4+ are now supported by the BD982 NORBIT strongly advises users to upgrade to FW9.8 to take advantage of the improvements. For users not wishing to upgrade at this time GUI 10.3.6 will support systems with Applanix FW 9.03.

## 6 Known Issues

Due to limitations in processing software and Geocoder processing of snippets data while the STX is scanning is not possible. If snippets if a project goal then turn scanning off prior to collecting data.

## 7 Customer Information