



SeaBat UI (version 4.0)

release notes

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AMENDMENT RECORD SHEET

Rev	Date	Reason for change	Revised by
10	30-01-2013	Bug fix release: (small) issues fixed.	M. Hartog

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Contents

1	INTRODUCTION	3
1.1	References	3
2	VERSION 4.0	4
2.1	4.0.0.10 (30-01-2013)	4
2.2	4.0.0.9 (09-01-2013)	4
2.3	4.0.0.8 (18-10-2012)	5
2.4	4.0.0.7 (13-09-2012)	6
2.5	4.0.0.6 (16-08-2012)	6
2.6	4.0.0.5 (13-08-2012)	6
2.7	4.0.0.4 (06-07-2012)	7
2.8	4.0.0.3 (20-06-2012)	8
2.9	4.0.0.2 (14-06-2012)	9
2.10	4.0.0.1 (04-06-2012)	9
2.11	4.0.0.0 (24-05-2012)	10
3	AMENDMENT RECORD SHEET	12

1 INTRODUCTION

This document contains the release notes for the SeaBat UI application.

As the SeaBat UI application is build using PDS2000 core engine and visualization engine technology all improvements made in these engines will be available in the SeaBat UI also. Listed in this document are the items which are operator UI changes or changes that stand out and should be known to the operator of the software.

1.1 References

- 1) SeaBat UI User Manual.pdf
- 2) 7K IO Module Manual.pdf
- 3) 7K IO Module release notes.pdf

2 VERSION 4.0

2.1 4.0.0.10 (30-01-2013)

2.1.1 Bug fixes

- 1) 9565, 9575: When the sound velocity override check box is clicked, the sound velocity control should be enabled. Currently, it works exactly the other way around! This is now fixed.
- 2) 9576: SUI Tracker button should be disabled when in master mode. This is now fixed.
- 3) Trigger is disabled for 8k wet end.

2.1.2 New features

- 1) 9255, 9543: Trigger configuration is added to the Hardware configuration page of the SUI.
- 2) 9461: For 7160 the FM sweep settings are added to the Hardware configuration page of the SUI.
- 3) 9536: For 7160 the frequency CW slider is added; the slider will be disabled when FM pulse type is selected.

2.1.3 Modified features

- 1) Dutch translation of the SeaBat UI has been completed.
- 2) Update 7k XML to support CW frequency step size.
- 3) Layout of the Advanced Settings page is updated due to the fact that the CW frequency slider is added.

2.2 4.0.0.9 (09-01-2013)

2.2.1 Bug fixes

- 1) 9325: SUI RDR pane has two issues (file size units and RDR other-records-selection). These have now been fixed.
- 2) 9432: Incorrect gain value shown on slider in SUI after switching TVG/Fixed. This is now fixed.
- 3) 9434: SUI should disable absorption and spreading controls in Fixed Gain mode. . This is now fixed.
- 4) 9441: Get number of 8k pulse length settings from sonar XML. . This is now fixed.
- 5) 9458: SUI should disable Range control when Tracker is enabled. . This is now fixed.
- 6) 9476: SUI should disable more controls in dual head slave mode. Also disable Tracker, Normalization and RDR Recording when in slave mode. . This is now fixed.
- 7) 9504: SUI could not be used for dual-head without FRDH license. . This is now fixed.
- 8) 9528: Head tilt in SUI editing 1000 times to great. . This is now fixed.
- 9) 9940: Power settings are wrong on 8125-H in SUI. (Use power settings from XML. Each 8k projector has its own set.) . This is now fixed.
- 10) Disable history in Detect view when upgrading to a newer SUI version.
- 11) Fixed transparent letters in splash image.
- 12) Added all levels of the main icon so in Windows the icons look good in all possible situations (zoom levels).
- 13) Fixed command for enabling dual head.
 - a. Some fields were uninitialized.
 - b. Enable trigger for FRDH.

- c. Set multiplier to 1.0 for ping-pong mode.

14) Fixed resetting to default coverage.

15) Improved scrollbar behavior in SUI.

2.2.2 New features

- 1) 9337: Add support for beam width option for 7160.

2.2.3 Modified features

- 1) Use default log file naming when starting 7k recording from the SUI.
- 2) Dutch translation of the SeaBat UI has been completed.
- 3) New icons for the existing tabs in the application are created.
- 4) Internal code clean-up.
- 5) Internal: source code improvements have been made.
- 6) Internal: source code has been made more robust.
- 7) Minimum gates window size set to 5 percent.

2.3 4.0.0.8 (18-10-2012)

2.3.1 Bug fixes

- 1) 9260: 7160 sonar beam modes did not fit the Beam Mode combo box. This has now been fixed.
- 2) 9152: Roll stabilization option is now grayed out for the 8125-H sonar.
- 3) 9195: Recording pane: label for 'Free disc space' now indicates the value is a percentage.
- 4) 9265: Recording pane: 'Current file size' for s7k recording is now updated while recording.
- 5) 9264: Recording pane: 'Records logged' is not updating during the recording, it is only updated when the recording is stopped. This has now been fixed.

2.3.2 New features

- 1) 9258: Pitch stabilization operator control has been added for the 7160 sonar.

2.3.3 Modified features

- 1) 8931: The About box lay-out has been improved.
- 2) Operator's manual has been updated.
- 3) Internal: source code improvements have been made.
- 4) Internal: source code has been made more robust.
- 5) Detect view: 'Only Show Valid Beams' enabled by default; in this case the auto extents works less dynamic.
- 6) Moved the History feature from the Detect view to the Wedge view.
 - a. History is now scrolling from top to bottom.
 - b. Added option to scroll to bottom left, bottom center or bottom right.
 - c. Added option for swath spacing.
 - d. Added option in the Data layer to set transparency from 0 to 100 percent. Switched off the transparency for the first swath. Use transparency for the history swaths only.

2.3.4 7k IO Module

2.3.4.1 New features

- 1) 9332: Added water temperature and depth pressure to 7610 SV 7k record. Modified PDS2000 and the 7k IO Module to support these new values.
 - a. There are currently two drivers that support the new fields:
 - i. RESON SVP70 RESON
 - ii. RESON SVP-C

2.4 4.0.0.7 (13-09-2012)

2.4.1 Bug fixes

- 1) Compatibility issue with Windows XP has been resolved (involved: GetTickCount64).
- 2) BITE pages will not report BITE issues when they are for Service personal only. Once the SeaBat UI application is set into Service mode these BITE issues will be shown.

2.5 4.0.0.6 (16-08-2012)

2.5.1 Bug fixes

- 1) Removed LockWindowUpdate calls; they block window updates in other applications, resulting in flickering.

2.6 4.0.0.5 (13-08-2012)

2.6.1 Bug fixes

- 1) TT 9014: Fixed setting swath steering angle to minimum and maximum. In wide mode the min/max values are -2.5/+2.5. These are rounded down/up to -3/+3.
- 2) TT 9052: Don't scroll BITE details list to the top every time it is updated.
- 3) TT 9060: When the slider for the Angle is changed and then on Default is clicked sometime the first time the slider does not react. The value itself jumps to the default value (140) but the slider not. Sometimes the slider jumps also to the default value of 140 but jumps directly back to 139 while the value stays on 140. This has now been fixed.
- 4) TT 7079: The max range shown for 200 kHz is 400 meter, but it is adjustable up to 750 meter. The static text controls are now updated when the frequency changes.
- 5) TT 9102: There is a possibility to click on a block in the BITE block diagram. This works fine unless the BITE block diagram scroll bar has been used. The orientation of the blocks (when you click on them) does not follow. Fixed mouse clicking in scrolled BITE schema.
- 6) TT 9138: The Pulse Type is now disabled when the SUI is acting as a Slave or Master. In normal mode the pulse type can still be changed.
- 7) TT 9150: When in the xml for the 400kHz the max power is changed it is not visible in the control pane of the SUI. When it is done for the 200kHz the right max power is visible. The selection of the power value is now linked to the frequency selection.
- 8) TT 9156: Adaptive Gates do not show on New UI 4.0.0.4. Fixed. Also affected: adaptive gate window percentage, adaptive gate search limits, and gain mode (TVG/Fixed).
- 9) TT 9181: Normalization does not work when SUI is loaded after Legacy UI. This has now been fixed (in the 7kCenter).
- 10) Configuration panes: Don't change value on first click of scrollbar property.
- 11) Pulse length scroll bar had a step size of 2 instead of being logarithmic. This has now been fixed.

- 12) Fixed jumping of scrollbar when setting manual sound velocity.
- 13) Support ping rate ratio from sonar configuration for step size other than one.
- 14) Enabling or disabling tracker did not work the first time. This has now been fixed.
- 15) Fixed wrong frequency in SUI when 7kCenter was restarted while SUI was running.

2.6.2 New features

- 1) TT 9006 & TT 9049: Normalization is now shown by means of a modal dialog which blocks the UI during the normalization.
- 2) TT 9100: Roll Stab format NMEA \$PASHR is now available.
- 3) Display 7k event messages in alert window.
- 4) Added levmar license info to the about dialog of the SeaBat UI app.

2.6.3 Modified features

- 1) TT 9022: The flex mode licensing has been adjusted so the 8125 Hybrid also properly handles flex mode licensing.
- 2) TT 9071: Limited scrollbar update rate to 5 times per second for all sliders which can be used to set a 7kCenter parameter.
- 3) TT 9099: Entering values for sonar gates now works like in wedge. When a gate comes too close to another it will change that value too.
- 4) Absolute gates option will not be shown when tracker is enabled.
- 5) Removed redundant BITE error alert.
- 6) Internal: source code cleanup.
- 7) Internal: source code restructuring.
- 8) Internal: stability improvements have been made.

2.7 4.0.0.4 (06-07-2012)

2.7.1 Bug fixes

- 1) TT 9087: When replaying 7k log data, the SeaBat UI shows horizontal black lines. To fix the problem the SeaBat UI Snippet computation now only uses beam quality 3 (brightness and colinearity bits set).
- 2) Sometimes the Hardware pane does not show all available frequencies at all times. This has now been fixed.
- 3) The Beam Mode licensed feature option has been improved to properly work with all sonar types.
- 4) Internal: source code cleanup.
- 5) Internal: source code restructuring.
- 6) Internal: stability improvements have been made.

2.7.2 New features

- 1) TT 9064: Multi frequency sonars: the Hardware pane now expands parts of the tree based on the frequency selected. And it collapses parts of the non-selected frequency(ies).
- 2) Control pane: adjust text above Gain scrollbar depending on Fixed checkbox.
- 3) Using full screen for a view does now not hide the floating panes; these will stay visible while all docked views will be hidden during the full screen state of the application.
- 4) Implemented the NMEA \$PASHR motion string as an option for the roll stab.

2.7.3 Modified features

- 1) TT 9087: SeaBat UI will reset to default coverage when switching beam modes.
- 2) SeaBatUI.ini file (and SeaBatUISlave.ini) is not installed by the installer anymore. It will be generated on the fly on an as-needed basis.
- 3) Dutch translation of the SeaBat UI has been completed.
- 4) Operator's manual has been updated.

2.7.4 7k IO Module

2.7.4.1 Bug fixes

- 1) TT 9804: All sound velocity drivers have been set to 10Hz input rate.
- 2) TT 8950: Time stamping of 7k IO Module has never been wrong; message display did not always display all the messages. See 7k IO Module technical bulletin.

2.7.4.2 New features

- 1) The 7k IO Module now comes with a technical bulletin "Technical Bulletin - Time Synchronization in 7k IO Module.pdf" which explains in great detail the inner workings of the 7k IO Module version before 3.7.x.x and the version 3.7.x.x onwards. The document is located in the manuals subfolder and can be accessed by the Documentation shortcut in the Windows Start Menu.

2.8 4.0.0.3 (20-06-2012)

2.8.1 Bug fixes

- 1) TT 9079: Control pane: 200Khz max range is wrong on the slider. This has now been fixed.
- 2) TT 9086: Snippets view will only process beams with co-linearity and brightness bits set (quality 3).
- 3) Finalized the implementation of the Load Factory Parameters option in the SeaBat UI (to be found in the Application Settings dialog).
- 4) Converted string literals to resource strings to get a better translated application.
- 5) Checking of Flex Mode license now has been fixed.

2.8.2 New features

- 1) Support running SeaBat UI of both master and slave on one system. The first SeaBat UI instance controls the local 7kCenter and 7k IO Module, while the second instance controls the slave 7kCenter and 7k IO module. The slave UI has separate settings (ini file and registry).

2.8.3 Modified features

- 1) Dutch translation of the UI has been completed.
- 2) Cosmetic textual improvements have been made.
- 3) SeaBat UI lay-out changes are now stored at registry location
 - a. "HKEY_CURRENT_USER\Software\Reson\SeaBat UI" or
 - b. "HKEY_CURRENT_USER\Software\Reson\Seabat UI Slave"

2.8.4 7k IO Module

2.8.4.1 Modified features

- 1) The Obsolete driver folder (subfolder of the General folder) is now installed in the SeaBat UI and 7k IO Module application folder. This can be used to use legacy drivers which customers might have in use in current projects.

2.9 4.0.0.2 (14-06-2012)

2.9.1 Bug fixes

- 1) TT 9024, TT 9059, TT 9077: LED's in the application toolbar now properly update their color when the corresponding data changes state.
- 2) TT 9030: 400 Khz and 396 Khz is now normalized to 400 Khz.
- 3) TT 9044: Don't set coverage to small angle at startup.
- 4) TT 9050: Detect view - removed obsolete annotation type item from Display pane.
- 5) TT 9051: Service page: date and time of last BITE message is reformatted.
- 6) TT 9056: AVI and Snapshot files now have UTC dates instead of localized dates.
- 7) TT 9060: Fixed head tilt for sonar wedge image.
- 8) TT 9065: Fixed manual setting of gate values, which sometimes didn't work at all.
- 9) TT 9070: Implemented separate minimum pulse length for FM.
- 10) License Information dialog will be more user when no license information is available.
- 11) Service status page: show "no errors" or "no bite data" depending on bite data (instead of "no bite data" only).
- 12) Cosmetically improved the Service pages.
- 13) Internal: source code cleanup.
- 14) Internal: source code restructuring.
- 15) Internal: performance improvements have been made.
- 16) Internal: stability improvements have been made.
- 17) Implemented a more robust way of getting the current sonar settings. This will benefit all functionalities in which that is needed (frequency switch, projector selection, ...).
- 18) Implemented a more robust way to get the available frequencies for the connected sonar.
- 19) Made processing of 7028 snippet data more efficient.
- 20) Optimized license check for frequencies in SeaBat UI.
- 21) Reset to default coverage when switching beam modes.
- 22) Push other gate out of the way when gates come too close together while dragging.

2.9.2 Modified features

- 1) Dutch translation of the UI has been completed.

2.9.3 7k IO Module

2.9.3.1 Bug fixes

- 1) SetTimeService service was not properly connected to the 7k IO Module. This has now been fixed. Thus the computer clock will now be synchronized properly.
- 2) Internal: source code cleanup.
- 3) Internal: performance improvements have been made.
- 4) Internal: stability improvements have been made.

2.10 4.0.0.1 (04-06-2012)

2.10.1 Bug fixes

- 1) TT 9000: Selection of beam mode is kind of difficult; this has now been fixed due to the Advanced pane layout change (9009).

- 2) TT 9009: Advanced Control pane slider controls are now placed horizontally.
- 3) TT 9011: Swath angle does not jump back to the minimum value due to gate changes.
- 4) TT 9016: The views in the SeaBat UI froze unexpected for a couple of seconds. This has now been fixed.
- 5) TT 9018: Handling of network ports for devices used in the 7k IO Module has been enhanced.
- 6) TT 9019: Removed button like behavior of the LED's in the application toolbar.
- 7) TT 9025: Communication to the 7kCenter has been bug fixed (after a frequency switch the sonar controls still behave as expected).
- 8) TT 9026: The names of external sensors used in the 7k IO Module are now also used in the 7k IO Module Settings pane.
- 9) TT 9028: Internal source code restructuring.
- 10) TT 9048: Roll stabilization in the Hardware Settings pane is greyed out while roll stab is enabled. This has now been fixed.
- 11) TT 9055: Hardware Settings pane typos have been corrected.
- 12) TT 9066: Normalization checkbox will now stay unchecked when selected.
- 13) TT 9067: Sound Velocity Filter combobox is now aligned with Sound Velocity slider in Advanced Control pane.
- 14) Main Control pane typo has been corrected.
- 15) Improved Message pane behavior when accepting alarms.
- 16) Internal: performance improvements have been made.
- 17) Internal: stability improvements have been made.
- 18) Internal: design improvements have been made.
- 19) Internal: source code clean-up.
- 20) Internal: display visualization performance management has been added.
- 21) Internal: removed unnecessary computations from Sonar devices.

2.10.2 Modified features

- 1) Dutch translation of the UI has been completed.
- 2) Operator's manual has been updated.

2.10.3 7k IO Module

2.10.3.1 Bug fixes

- 1) The 7k IO Module has been improved internally to work properly with both the SeaBat UI and the legacy UI.
- 2) Internal: performance improvements have been made.
- 3) Internal: stability improvements have been made.
- 4) Internal: design improvements have been made.

2.11 4.0.0.0 (24-05-2012)

2.11.1 Initial release SeaBat UI

- 1) The graphical user interface needs to provide the operator with sufficient information to correctly operate the system, provide displays to allow quality control of the data and provide information on system status and error checking. The SeaBat UI gives the user optimum processing power and brings a fresh new feel to the user without losing the critical information the operator needs to correctly and optimally use the system.

- 2) Please refer to chapter References for detailed information on the features in this initial release of the SeaBat UI.

2.11.2 7k IO Module

- 1) The 7k IO Module has been renewed. A new official release has not been made (will not be made). This does **not** mean that the SeaBat UI cannot work with the previously released version (3.7.0.14). The SeaBat UI just utilizes the new features of the new 7k IO Module version. The release notes document for previously released version (3.7.0.14) has been embedded in this installer for information completeness.
- 2) The new 7k IO Module has been integrated in the SeaBat UI installer. This is to limit the size of the total 7k software installer. Installer features of the previously released 7k IO Module installer (3.7.0.14) are mimicked by the SeaBat UI installer. Please use the new integrated 7k IO Module in combination with the SeaBat UI.

2.11.2.1 New features

- 1) 7k IO Module status output message added (for usage in the SeaBat UI Service pages).
- 2) The 7k IO Module now has a feature which enables filtering of sensor groups. This means only the valid sensor groups will be shown to the operator.

2.11.2.2 Bug fixes

- 1) The 7k IO Module now saves leap seconds.
- 2) Generic stability improvements.
- 3) Performance improvements.
- 4) Generic design improvements.

3 AMENDMENT RECORD SHEET

Rev	Date	Reason for change	Revised by
0	24-05-2012	First version of this document.	H. Stoelinga
1	04-06-2012	Bug fix release: (small) issues fixed	H. Stoelinga
2	13-06-2012	Bug fix release: toolbar LED behavior, 396 vs. 400 kHz, ...	H. Stoelinga
3	20-06-2012	Bug fix release: master / slave usage, reset sonar settings, ...	H. Stoelinga
4	06-07-2012	Bug fix release: (small) issues fixed	H. Stoelinga
5	13-08-2012	Bug fix release: (small) issues fixed.	H. Stoelinga
6	16-08-2012	Bug fix release: removed flickering of other applications when SeaBat UI is active.	H. Stoelinga
7	13-09-2012	Bug fix release: BITE and Window XP related	H. Stoelinga
8	18-10-2012	Bug fix release: (small) issues fixed.	H. Stoelinga
9	09-01-2013	Bug fix release: (small) issues fixed.	H. Stoelinga
10	30-01-2013	Bug fix release: (small) issues fixed.	M. Hartog