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Chesapeake's SonarWiz 7.1 Delivers New Suite of Tools to Boost Bathy, Sidescan, and Backscatter Productivity

Users with extended maintenance agreements can use new features immediately

Marine survey professionals can save time and enhance productivity thanks to a broad array of new tools included in Chesapeake Technology's SonarWiz 7.1 software it was announced today. The latest version of SonarWiz features drag and drop bathy, automated vessel creation, a new unified user interface, and multiple EGN tables designed to streamline workflow and boost signal processing speeds.

"Drag and drop bathy dramatically increases the speed of the import and merge process, and automated vessel creation saves time and enhances productivity," said John Gann, Chesapeake's VP, Software Development. "One of the biggest time savers is the software's new smarter import logic. SonarWiz now takes the guesswork out of which packets to import when working with Hypack, Kongsberg, R2Sonic, Reson and XTF bathymetry."

Files imported into SonarWiz may contain multiple sources of bathymetry, backscatter, position and attitude data. The software's new "Auto" selection options allow SonarWiz to automatically select the best packet types for any given file, eliminating the need for manual packet type selection. The software still allows advanced users to use manual processes when desired.

In another major enhancement, SonarWiz 7.1 now allows users to apply more than one EGN table inside a single SonarWiz project. This allows for streamlined workflow and more rapid signal processing in projects that involve multiple sonar systems or dual frequency sonars.

"The ability to independently apply EGN signal processing to both the low and high frequency channels within a single project will cut the time required to process these data by at least a factor of two," said David Finlayson, Chesapeake's Chief Scientist.

The software now includes new unified waterfall windows that allow users to view and analyze more data types, faster. Specifically, the software allows users to see, interpret and digitize contacts and features from three sources: multi-beam bathymetry, multi-beam backscatter and sidescan sonar, all in a consistent single interface. This, in turn, leads to better final products and reports thanks to the software's multiple export options.



Following on its successful introduction of sidescan multi-core signal processing, SonarWiz 7.1 now includes multi-core processing for bathymetry. This significantly decreases the time required to import and process bathymetry data. In addition, the software's enhanced color palette support enables users to easily adjust individual files, and user specified tide and sound velocity during data acquisition allows for greater control and precision.

SonarWiz 7.1 features a new R2Sonic batch file utility that splits a multi-spectral R2S file into multiple R2S files each containing a discrete frequency. The new software also includes support for working with multi-spectral multi-beam backscatter. And a new generic Frequency Filter allows users to import all frequencies and then filter out discrete frequencies to build imagery and surfaces.

"These new utilities and filters allow users to import and work with multispectral bathymetry and backscatter in creative and flexible ways," said Gann.

Chesapeake continues to add support for module types, sonar and sensor types and file formats in one easy to use, integrated package. For example, SonarWiz 7.1 boasts enhanced LiDAR and Synthetic Aperture Sonar (SAS) processing including native support for Velodyne VP16 and post-processing of data from sonars such as Sonardyne Solstice. For a complete list of supported sonar and sensor types and file formats, please contact Chesapeake at +1(650) 967-2045 or [visit the website](#).

Finally, Chesapeake is among the first in the industry to offer dongle-free license options. This gives certain office-based users the ability to use the software without any dedicated security hardware. The dongle-free option allows users to transfer software from one computer to another with just a few clicks. It also helps users avoid the need to purchase new licenses required to replace lost or stolen dongles.

Chesapeake Technology, Inc. is a privately held company based in Mountain View CA. SonarWiz software is used by hundreds of clients worldwide, including NOAA, USGS, Fugro, Oceanering, leading academic institutions, and many of the world's navies.

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