



Chesapeake Announces New Features in SonarWiz Release 7.6

Chesapeake Technology (CTI) announced several new features and enhancements for the 7.6 release of SonarWiz in May. New tools including forward looking sonar processing, multibeam beam performance test, A–B change detection tool for sidescan data, and faster 2D and 3D drawing and viewing throughout SonarWiz. We also implemented dozens of customer requested updates and enhanced the user interface and general usability.

The new **Beam Performance Test** provides the user with IHO pass/fail criteria, data histograms, reject ratio and information about each beam. The test measures differences along the swath, providing a snapshot of how the overall system is expected to perform during your survey operations. It is useful for survey planning, knowing the extent of the system performance

The **A-B change detection** is an automated tool we created to analyze two sidescan areas, creating a difference plot of bottom features that showed a change. The process can be done with either sidescan or backscatter, applying EGN or other gains, and creating a grid of the data from the amplitude. Whether the end goal is to do a port security assessment – locating new features on the bottom; or an environmental impact study of changes – monitoring the growth of an invasive species; these comparisons and the automated tool will make the job a little easier.

We added support for **Forward Looking Sonar (FLS)** starting with the Kongsberg Mesotech M3. SonarWiz allows the user to choose a sampling zone within the acoustic frames to import. Each of these sampled frames are then recorded and can be mosaiced and processed in SonarWiz. We plan to add support for more FLS sonar models soon.

Chesapeake introduced a drawing cache mechanism designed to allow for compact storage of, and quick access to, large bathymetric point clouds for display within the **3D viewer**. This cache allows for much faster loading and drawing of large surveys by varying the level of detail shown to match the point of view, data loaded, and resources available.

In the latest version of the software, better control over point sizes and level of detail is available in **2D drawing**. This allows users to favor drawing speed while working at the project overview level but optimize for rendering quality for final output. Users with large bathy projects will notice the biggest improvements from these changes; roughly speaking, the larger the project, the larger the performance benefits.

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

Please see our *Chesapeake Times* for details: <https://conta.cc/2ykbmtG>.

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