



FOR IMMEDIATE RELEASE

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Chesapeake Announces Release of SonarWiz 7.6

Chesapeake Technology (CTI) announced today that SonarWiz 7.6 is available May 19 and users with current support plans can download it now. New tools include forward looking sonar processing, multibeam beam performance test, A–B change detection tool for sidescan data, real time sub-bottom swell filter, and faster 2D and 3D drawing and viewing throughout SonarWiz. CTI also implemented dozens of customer requested updates and enhanced the user interface and general usability. Also included in the release is a revised User Guide and Quick Start Guides for operating the software.

The new **Beam Performance Test** provides the user with information about each beam and measures differences along the swath, providing a snapshot of how the overall system is expected to perform during survey operations. Results are good for a while and the test only needs to be redone when a sensor is moved or changed out.

CTI has added a new **A-B change detection** tool to automatically detect changes or differences on the seabed in their sidescan data. Creating a sidescan mosaic for a survey is straightforward and so is creating a second mosaic of the same area. The hard part is finding differences between the two areas. Whether the end goal is to do a port security assessment to locate new features on the bottom, or an environmental impact study of changes monitoring the growth of an invasive species, these comparisons and automated tools make the job a little easier.

CTI added support for **Forward Looking Sonar (FLS)** starting with the Kongsberg Mesotech M3 and FlexView. 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. During 2020, CTI will add support for systems from more manufacturers, and introduce new data collection interfaces and servers for these sonars.

For collecting sub-bottom data, Chesapeake added a **real time swell filter** to the toolkit. This feature is not available in other acquisition packages and offers the user the ability to view the seafloor first return without any motion artifacts. This helps in distinguishing the natural seabed and provides an easier interpretation of the data.

CTI introduced a drawing cache 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.

Better control over point sizes and level of detail (LOD) is now 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 about key features: <https://conta.cc/2ykbmtG>.

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