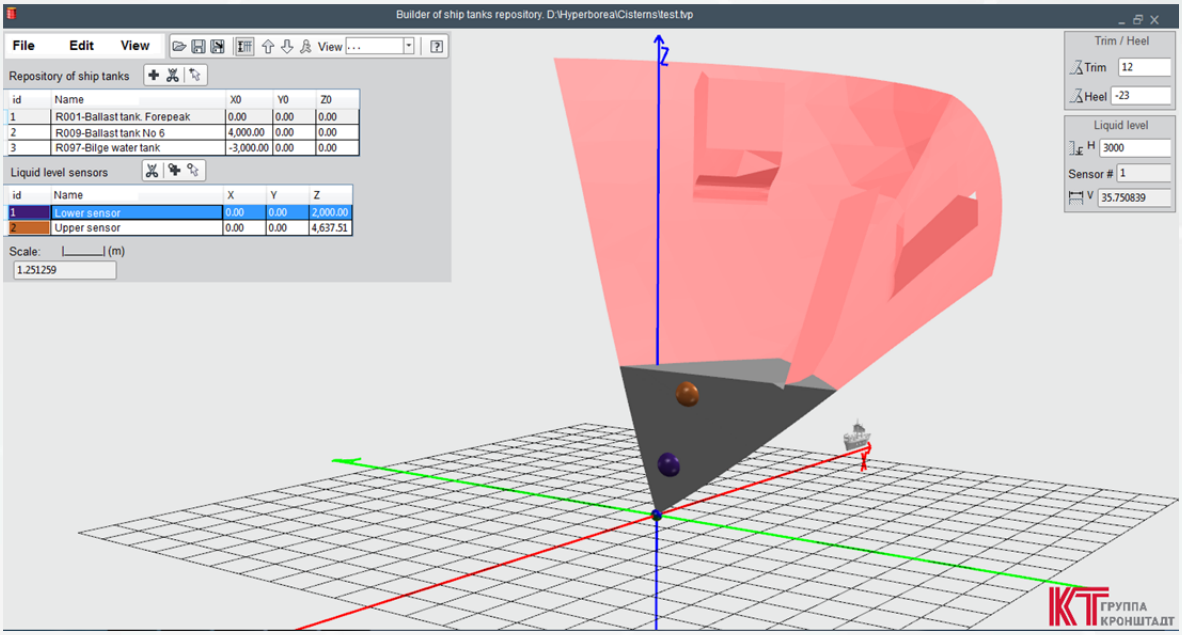
Bureau Hyperborea

Applied Software «Tank Volumes»

Purpose: Development of applied software for calculation of filling levels of tanks with an arbitrary geometry, at any angles of heel and trim, and with an arbitrary arrangement of sensors

Customer: JSC «Kronstadt Technologies», 2017, http://kronshtadt.ru/

Product Format: Cross-platform computational library & Desktop application running under Windows OS



Principal features:

- Built-in editor of geometry and arrangement of ship tanks for the considered ship. Import of tank geometry from STL-format.
- Input/editing of sensors location. Sensor positioning by means of indication on tank 3D-model
- Calculation of the filled volume for the tanks with an arbitrary geometry, at any angles of heel and trim, and with an arbitrary arrangement of sensors
- Saving/loading of tank/sensor data to/from cross-platform repository
- 3D-visualization, zoom and navigation
- Input and displaying the heel and trim angles
- Visualization of liquid shape for any trim/heel and sensor level
- Kernel API of cross-platform computational module for its incorporation into ship on-board automation system
- Logging of calculation results

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