

HarborSym Version 1.5.5.2

Released 2013-10-22

The updated HarborSym version 1.5.5.2 with a release date of 2013-10-22 has all the features of 1.5.5.0, but with minor changes to the .SODA output database. These changes were implemented to enhance compatibility with a reporting tool that is under development. No changes were made to the computation kernel from version 1.5.5.0.

HarborSym Version 1.5.5.0

Released 2013-03-25

The updated HarborSym version 1.5.5.0 with a release date of 2013-03-25 includes an updated HarborSym kernel version 1.0.26.0, Bulk Loading Tool (BLT) version 1.0.88.0, Container Loading Tool (CLT) version 0.6.14.0, and Combiner version 1.0.4.0.

These components of the software were updated to address an issue with the implementation of ocean voyage cost allocation to the subject port in version 1.4.8.0. Version 1.5.5.0 now handles partial loading and unloading of bulk vessels. Additionally, the ETTC (estimate of total trip cargo) field, which is integral to the ocean voyage cost allocation algorithm, is now exposed to the user within the HarborSym User Interface and included in the import/export port traffic template routine. This allows users who wish to develop hand-crafted vessel call lists to properly populate the ETTC field.

Along with the software, the user's guide was updated to clearly describe how the ocean voyage cost allocation algorithm is carried out within HarborSym, the BLT, and CLT.

The revised HarborSym version 1.5.5.0 and associated user's guide will require a formal review and certification process. However, as this change only affects the allocation of the ocean cost segment of the model, the model development team has recommended the recertification process be accomplished in house in conjunction with the DDNPCX.

HarborSym Version 1.4.8.0

Released 2012-11-12

The updated HarborSym version 1.4.8.0 with a release date of 2012-11-12 includes an updated Bulk Loading Tool (BLT), version 1.0.87.0. The BLT improvements include a change in loading behavior and the addition of several output fields for verifying the loading behavior. User's documentation has been updated to reflect the changes in the BLT.

HarborSym Version 1.4.8.0

Released 2012-08-21

An updated version of HarborSym is available for download effective 21 August 2012. The modifications to the user interface and computational engine included in this release were

designed to supplement the existing toolset with added functionality while continuing to maintain improvements in efficiency and usability.

Highlights of HarborSym Version 1.4.8.0 improvements include:

- Ability to evaluate channel deepening projects in addition to the original widening model capabilities.
- Additional deepening features capture fleet and loading changes while also incorporating calculations for both within harbor costs and costs associated with ocean voyage costs.
- Includes three new integrated modules designed to aid planners in analyzing and developing future vessel calls lists for general bulk and containerized vessels.
 - **Integrated Bulk Loading Tool (BLT)** and **Container Loading Tool (CLT)** modules provide the ability to generate synthetic vessel call lists based upon user provided calling statistics.
 - The **Combiner** module can be used to merge the BLT and CLT produced vessel call databases into a single database that can be used by the HarborSym simulator.
- Three new supporting toolsets used to facilitate faster, higher quality model inputs required by the simulation.
 - **AIS Data Analyzer PreProcessor (A-DAPP)** The Automatic Identification System Data Analysis and Pre-Processor (A-DAPP) provides the capability to visualize, analyze, and synthesize historical Automatic Identification System (AIS) data for use in container port channel improvement studies and associated simulation modeling.
 - **Waterborne Data Analyzer PreProcessor (W-DAPP)** The Waterborne Commerce Statistics Center Data Analysis and Pre-Processor (W-DAPP) is a general-use model that extracts data collected by the Corp's Waterborne Commerce Statistics Center (WCSC), processes that information, and exports it in the form of a port call list that can be used by HarborSym in deep draft navigation analyses.
 - **Tide Tool** The IWR Tide Tool allows for the review of existing reference, secondary, and current stations as well as the creation of custom tide stations. This tool allows for the creation of custom stations based on reference stations. Once created, these custom tide stations can be made available in other tools such as HarborSym.

To accompany HarborSym Version 1.4.8.0, the HarborSym Development Team has published revised users' documentation as well as updated the associated classroom training content and materials provided during formal training courses.

The updated User's Manual, available for download from the HarborSym website, provides new details additional modules, related toolsets, as well as updates regarding the overall model processes and assumptions necessary to fully understand the simulation results.

The HarborSym Development Team continues to welcome comments and suggestions. Please send your ideas or contact us if you have any problems with the provided software packages.