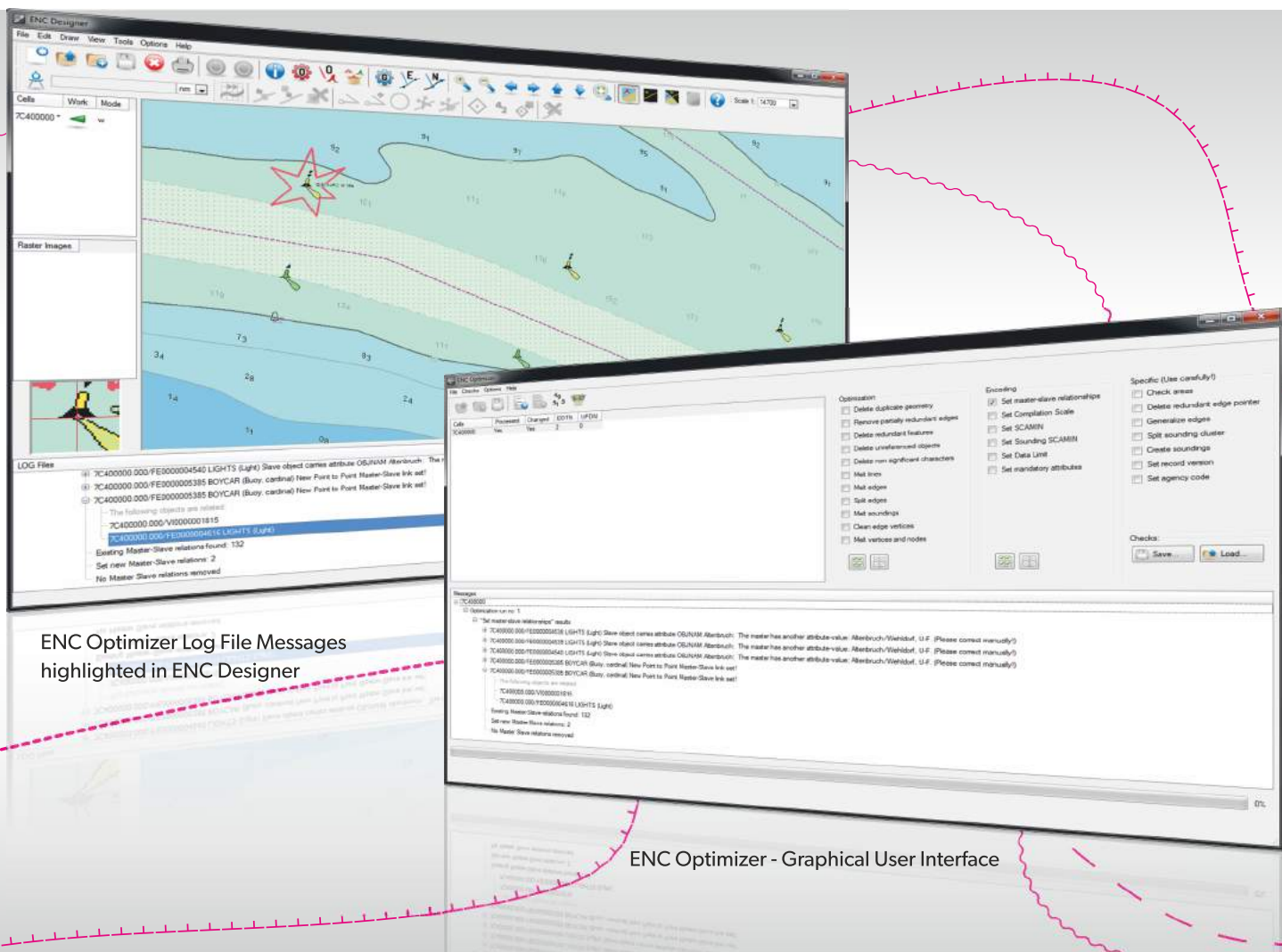


# ENC OPTIMIZER



## PRODUCT DESCRIPTION

ENC Optimizer helps to produce better electronic charts. Its wide range of optimization functions can be fully integrated into SevenCs Chart Production Workflow. ENC Optimizer has powerful checks to detect and eliminate topology errors and provides automated functions for labour intensive production processes. Different types of data reduction methods can be applied to the overall data set. Data improvement with ENC Optimizer contributes to better performance in the end ECDIS or ECS application.

## PRODUCT HIGHLIGHTS

- Powerful Topology Checks
- Efficient Data Reduction functions
- Automatic Object Encoding
- Flexible Feature and Geometry Filters
- Customizable Configurations
- Can be used either stand-alone or interactively with ENC Designer
- Generates interactive Log Files for review in ENC Designer
- Command Line Mode for Batch Processing
- Save combinations of selected checks

# ENC OPTIMIZER

## FUNCTIONAL OVERVIEW

### AUTOMATIC ENCODING

Various functions are available to set specific S-57 cell header entries and to automatically manipulate the characteristics of feature objects.

- Adjustment of compilation scale and producing agency code
- Support of different methods to automatically set SCAMIN values (e.g. S-57 UOC 4.0.0)
- Dedicated SCAMIN function for soundings
- Set Master/Slave Relations
- Conversion of single sounding features into clusters
- Activation of data limit flag

### DATA REDUCTION, GENERALIZATION AND CORRECTION

ENC Optimizer includes various functions to reduce data volume (e.g. merging of individual items, deletion of redundant data, geometry generalization, etc.).

- Removes duplicate objects (features and spatial)
- Deletes partially redundant edges
- Joins line features and edges
- Deletes collinear vertices
- Generalizes edges according to compilation scale
- Fixes area orientation errors
- Correction of discontinuous lines

### AREA FEATURE CHECKS

ENC Optimizer integrates special functions to detect and fix erroneous area objects.

- Detects unreferenced edges in area objects
- Reports overlapping Group 1 area features and self-intersecting edges
- Fixes area features with wrong edge orientation

### SETTINGS AND FILTERS

ENC Optimizer functions can be applied to a subset of data if required. This is done by means of filters and variable settings.

- Allows the use of different filter types (object classes, attributes, primitive types, group)
- Provides selectable filter rules to be applied during the optimization process

### ADDITIONAL FUNCTIONS

- Can be started directly out of ENC Designer
- Window for presentation of detailed log messages
- Export of log files (e.g. for review in ENC Designer)
- Support of command line mode, e.g. for batch processing

### SUPPORTED FORMATS AND PRODUCTS

- Vector Formats (R/W): S-57 3.0, 3.1, 3.1.2, SevenCs directENC
- Vector Products R/W): ENC 2.0, IENC 1.02, 2.0, 2.1, 2.2, 2.3, 2.4, AML 1.0, 2.1, 3.0, bENC 1.0, PENC

### SUPPORTED OPERATING SYSTEMS

- Win 7/8/10 (32 Bit, 64 Bit)